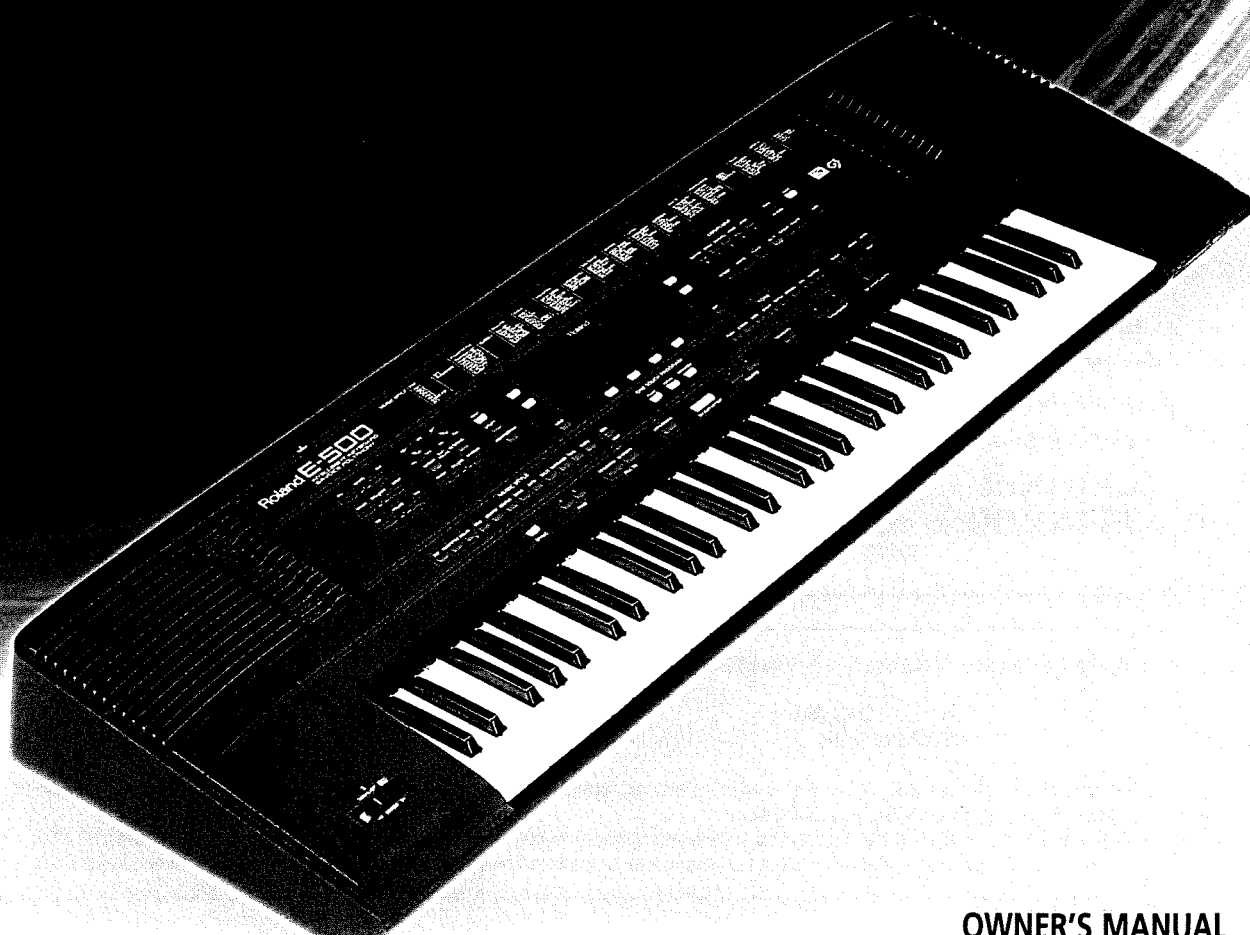


Roland




E-500


INTELLIGENT KEYBOARD
64-VOICE POLYPHONY



OWNER'S MANUAL



CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN



ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other) . This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
 The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
 The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.



Roland



E-500

Owner's Manual

We'd like to take a moment to thank you for purchasing the Roland E-500 Intelligent Keyboard.
In order to enjoy reliable performance for many years to come,
please take the time to read this manual in its entirety.

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Introduction

Main features

❑ Three instruments in one

The E-500 can be used as piano, organ, or "key-board" (i.e. a synthesizer with automatic accompaniment) – all at the touch of a button.

❑ 270 Tones (sounds) and 111 Styles built-in

Support for a wide range of musical genres. Additional Styles are provided on the included Style disk.

❑ Piano Tones rely on stereo sampling

The technology used ensures that your E-500 provides some of the finest concert grand piano sounds available on electronic musical instruments.

❑ 64-voice polyphony

Up to 64 voices can be played simultaneously. (In most instances your E-500 can play 64 notes simultaneously.)

❑ Simple yet versatile Composer

Simple recording.

Playback of commercial music data.

A comprehensive Composer menu:

- 16 Track Sequencer
- Chord Sequencer
- Song Edit
- Style Composer
- Style Converter

❑ Microphone input jack

Microphone signals can be processed with a dedicated echo effect.

❑ GM (General MIDI) and GS compatible

- General MIDI System 

The General MIDI System is a set of recommendations which seeks to standardize the MIDI support features of sound generating devices. Sound generating devices and musical data (disks) carrying the General MIDI logo conform to the General MIDI specifications. This means that whenever you play back music data marked with the General MIDI logo, the musical response will be identical when played on any device which also carries the General MIDI logo.

• GS Format

Roland developed the GS Format to standardize the response of sound generators when MIDI is used for the production of music. By using a GS Format sound generating device, you can be assured that you will always obtain a faithful, high-quality rendition of any commercially available music data that carries the GS Format logo. The E-500's tone generator fully supports both the General MIDI system and the GS Format—so you can use music data that is designed for either standard.

❑ Reads and writes SMF Music Data

The E-500 is capable of playing Standard MIDI Files, such as "SMF Music Data" (720 KB/1.44 MB format 3.5 inch floppy disks).

Contents

1. Important notes	8
2. Panel descriptions	10
2.1. Front panel	10
2.2. Rear panel	12
3. Before using the E-500	13
3.1. Setting up the music rest	13
3.2. Connecting the power cord	13
3.3. Turning the instrument on and off	13
3.4. Using headphones	13
3.5. Connecting external amplifiers and other devices	14
4. Basic operation and display	15
4.1. Typographic conventions used in this owner's manual	15
The Basic/Home screen	15
Navigating through the display pages	15
5. Overview of the E-500	17
5.1. Introduction of the E-500's main functions — [DEMO] button	17
Tone and Style demo — <Sound>/<Style>	17
Choosing the display language	17
Using <Game>	18
5.2. Performance functions	18
One Touch Program: Selecting the "instrument type"	18
Example: "When The Saints Go Marching In"	22
5.3. Playing back songs on disk	24
Using a microphone	25
5.4. Pitch Bend, Modulation, and Transpose	26
6. Tones and related functions	28
6.1. Selecting Tones	28
Selecting "normal" Tones	28
Selecting Expansion Tones	28
Drum sounds and sound effects — [DRUMS/SFX]	29
Adding effects to Tones	30
Octave Shift: changing the pitch by octaves	31
6.2. Keyboard modes	32
Whole: one Tone for the entire keyboard	32
Split: different Tones in the left and right hand	32
Layer: two Tones	33
7. Playing with accompaniment (Arranger)	34
7.1. What is an Arranger?	34
Settings	35
7.2. Selecting Music Styles	36
Using Style disks (User Styles)	36
7.3. Starting and stopping Styles	37
Starting a Music Style	37
Stopping a Music Style	38

Alternatives for starting and ending Music Style playback	39
7.4. Style tempo	39
7.5. Accompaniment and melody volume balance	39
Global balance	39
Adjusting the volume of each part — Part Volume	39
7.6. Switching Style arrangements (divisions)	41
7.7. Easy fingering – Chord Intelligence	42
7.8. Melody Intelligence	43
8. Recording and playback	45
8.1. Recording	45
Normal recording	45
Let's record something	45
Recording Minus-One performances	46
Correcting minor mistakes	47
8.2. Playing back a Composer song	48
8.3. Track Mute: Muting specific tracks	48
8.4. Playing back songs without tempo changes	48
8.5. Erasing the Composer song	49
8.6. Saving a song to disk	49
Saving songs in SMF format (As SMF)	50
9. Composer Menu	52
Functions of the Composer Menu	52
9.1. 16-track Sequencer	52
Muting or playing selected tracks	52
Tracks vs. MIDI channels	52
9.2. Chord Sequencer	53
9.3. Recording Mode	53
Recording method (Rec Mode)	53
Stopping a recording (Rec Stop)	54
9.4. Formatting disks	54
9.5. Style Composer	54
9.6. Style Converter	56
9.7. Saving User Styles	57
9.8. Song Edit	57
Steps for editing	57
Setup: tempo and volume	57
Quantize: timing corrections	57
Erase: removing data from a track or song	58
Copy(ing) measures	58
Delete: removing measures	59
Insert: adding blank measures	59
Transpose: changing the key	59
Track Exchange/Track Copy: swapping and copying tracks	59
10. Function Menu	60
Operating procedure for the Function Menu	60
10.1. Piano screen functions	60
Metronome volume and beat	60

Key Touch (velocity sensitivity)	60
Tuning	61
Marker function: repeatedly playing back the same section	61
10.2. Organ screen functions	62
Using the Arranger	62
Lower Tone on/off and split point	62
10.3. Basic screen functions	63
Auto: changing the Arranger defaults	63
Chord Tone Setting	63
11. User Programs, Pad buttons, pedals	64
11.1 User Program: registering panel settings	64
11.2. Pad buttons: additional or frequently used functions	65
11.3. Pedal (footswitch) functions	66
12. Utility Menu	67
12.1. Operating procedure	67
12.2. Utility functions	67
Master Tune	67
Key Touch/Key Transpose	67
Metronome Volume and Beat	68
Selecting a different Reverb and/or Chorus effect	68
Expansion Tone	68
LCD Contrast	68
Lyric: switching off the display of lyrics	68
Pitch Bend Range	69
Program Change (and Bank Select)	69
MIDI: TX MIDI Ch./Local Control	69
User Program Arranger Update	70
Memory Backup	70
Factory Preset (initialization)	71
Link to 16TRK Sequencer	71
13. Connecting MIDI instruments	72
14. Appendix	73
14.1. Troubleshooting	73
14.2. Error messages	74
14.3. DSP effects	76
14.4. Demo songs	77
14.5. Specifications	78
Tones, Drum Sets, Music Styles	78
Normal Tones	79
Expansion Tones	80
Internal Music Styles & Disk Styles	82
Drum Sets	83
Chord Intelligence	85
MIDI Implementation Chart	87
Roland World Distributors	88

1. Important notes

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY", please read and observe the following:

❑ Power supply

- Do not use this instrument on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting the E-500 to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

❑ Placement

- This instrument may interfere with radio and television reception. Do not use this instrument in the vicinity of such receivers.
- Do not place the instrument near devices that produce a strong magnetic field (e.g., loudspeakers).
- Install the instrument on a solid, level surface.
- Do not move the instrument or subject it to vibration while the disk drive is operating.
- Do not expose the E-500 to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.

❑ Maintenance

- For everyday cleaning wipe the instrument with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent. Afterwards, be sure to wipe the instrument thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

❑ Repairs and data backup

- Please be aware that all data contained in the E-500's memory may be lost when the instrument is sent for repairs. Important data should always be backed up on a floppy disk, or written down on paper (if possible). During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data.

❑ Additional precautions

- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction,

or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically save a backup copy of important data in to a high-quality floppy disk. Bear in mind, however, that it may be impossible to restore the contents of data that was stored on a floppy disk. Roland Corporation assumes no liability concerning such loss of data.

- Use a reasonable amount of care when using the unit's buttons, sliders other controls. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When connecting/disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable wires.
- A small amount of heat will radiate from the instrument during normal operation.
- To avoid disturbing your neighbors, try to keep the instrument's volume at a reasonable level. At times, it may be preferable to use headphones.
- When you need to transport the E-500, package it in the box (including padding) that it came in or use a hard or soft case.

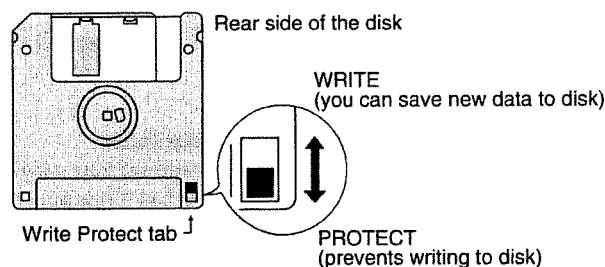
Before using floppy disks

❑ Floppy disk drive

- Avoid using the E-500 immediately after it has been moved to a location with a significantly higher or lower level of humidity. Rapid changes in the environment can cause condensation to form inside the drive, which will adversely affect the operation of the drive and/or damage floppy disks. When the instrument has been moved, switch it on and wait at least one hour before using the disk drive.
- To insert a disk, push it gently but firmly into the drive—it will click into place. To remove a disk, press the EJECT button.
- Never attempt to remove a floppy disk from the drive while the drive is operating (the indicator is brightly lit); damage could result to both the disk and the drive.
- Remove any disk from the drive before powering up or down.
- To prevent damage to the disk drive's heads, always try to hold the floppy disk in a level position (not tilted in any direction) while inserting it into the drive.

Handling floppy disks

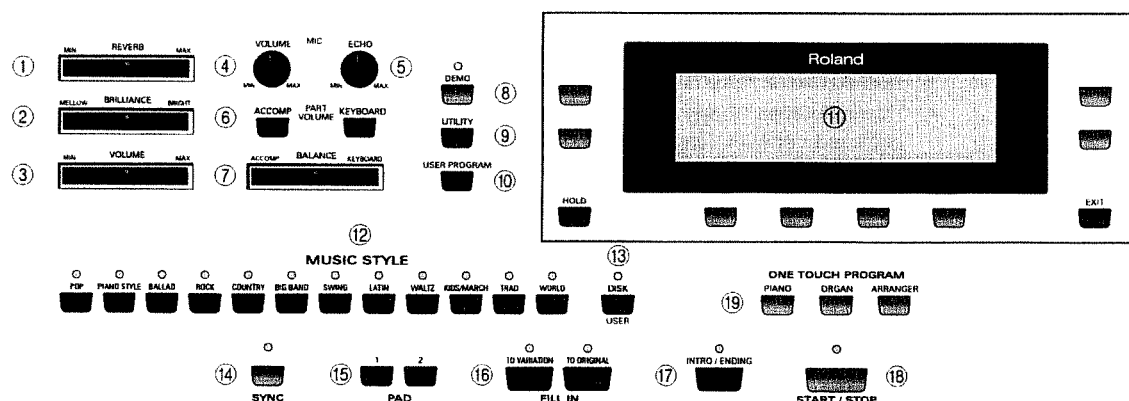
- Floppy disks contain a plastic disk with a thin magnetic coating. Microscopic precision is required to enable storage of large amounts of data on such a small surface area. To preserve their integrity, please observe the following when handling floppy disks:
 - Never touch the magnetic medium inside the disk.
 - Do not use or store floppy disks in dirty or dusty areas.
 - Do not subject floppy disks to temperature extremes (e.g., direct sunlight in an enclosed vehicle). Recommended temperature range: 10 to 50° C (50 to 122° F).
 - Do not expose floppy disks to strong magnetic fields, such as those generated by loudspeakers.
- Floppy disks have a "write protect" tab which can protect the disk from accidental erasure. It is recommended that the tab be kept in the PROTECT position, and moved to the WRITE position only when you wish to write new data onto the disk.



- Disks containing important performance data for this unit should always be locked (have their write protect tab slid to the "Protect" position) before you insert them into the drive of another instrument (except the PR-300, or a product of the HP-G, MT, KR, or Atelier families), or into a computer's drive. Otherwise, when performing any disk operations (such as checking the contents of the disk, or loading data), you risk rendering the disk unreadable by the E-500's disk drive.
- The identification label should be firmly affixed to the disk. If the label comes loose while the disk is in the drive, it may be difficult to remove the disk.
- Put the disk back into its case for storage.

2. Panel descriptions

2.1. Front panel



- 1. REVERB slider**
Adjusts the level of the Reverb effect.
- 2. BRILLIANCE slider**
Adjusts the brilliance (brightness) of the sound. Moving the slider to the right increases the brightness of the tone, and moving it to the left makes the sound more subdued.
- 3. VOLUME slider**
Adjusts the instrument's overall volume.
- 4. Mic VOLUME knob**
Adjusts the volume of the microphone connected to the E-500.
- 5. Mic ECHO knob**
Adjusts the amount of echo added to the microphone input.
- 6. Part Volume ACCOMP and KEYBOARD buttons**
Use the [ACCOMP] button to set the volume of each individual accompaniment part. The [KEYBOARD] button provides access to a display page where you can set the volume of the part(s) played via the keyboard.
- 7. BALANCE slider**
During the performance using a Music Style, you can adjust the balance of the volume levels of the accompaniment and the melody.
- 8. DEMO button**
This button provides access to an on-screen Help function with explanations of the E-500's functions, games allowing you to identify sounds and chords, etc.
- 9. UTILITY button**
Press this button to access the E-500's Utility functions (see "Utility Menu" on page 67).
- 10. USER PROGRAM button**
Press this button if you wish to write the panel settings to a User Program or recall the panel settings for a given song.
- 11. Display and related buttons**
The display shows all the information you need in a given situation. The soft keys next to the display (whose function varies according to the selected display page) allow you to select one of the available menu options.
- 12. MUSIC STYLE buttons**
Use these buttons to select Music Style groups. Refer to the MUSIC STYLE table above the display for more information about the contents of each Music Style bank. Alternatively, see "Internal Music Styles & Disk Styles" at the end of this manual.
- 13. DISK/USER button**
Provides access to the Disk functions and allows you to select the Music Style you loaded from a floppy disk.
- 14. SYNC button**
Allows you to start a Music Style by playing on the keyboard.
- 15. PAD buttons**
Various functions can be assigned to these buttons (see "Pad buttons: additional or frequently used functions" on page 65).
- 16. FILL IN buttons**
These buttons have two functions: you can use them to select the accompaniment pattern for a Music Style or to switch from the accompaniment pattern to a Fill-In during a performance.

17. INTRO/ENDING button

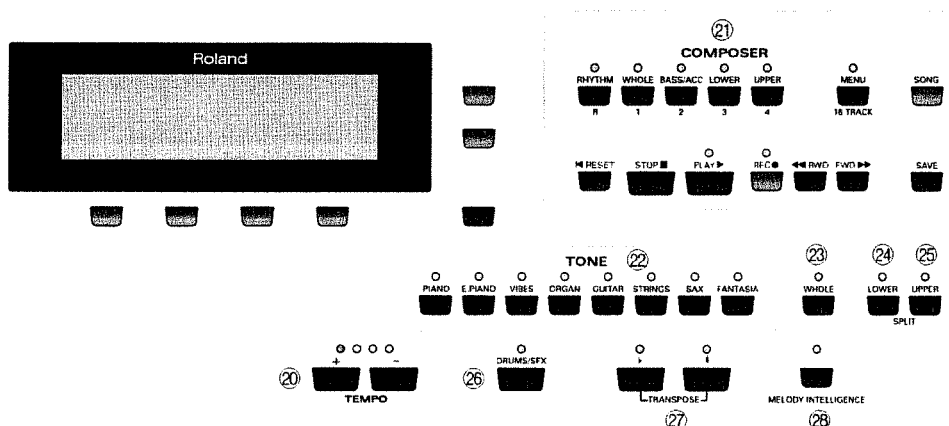
Press this button when you want to start a Style performance with an introduction, or to stop Music Style playback with a musical ending.

18. START/STOP button

Used to start or stop a Style performance.

19. ONE TOUCH PROGRAM buttons

These buttons allow you to instantly recall the appropriate settings for the music you want to play.

**20. TEMPO buttons and beat indicators**

Use these buttons to adjust the tempo of the selected Music Style or of the song you are playing back.

21. COMPOSER section

Use these buttons to control the on-board sequencer (called *Composer*).

22. TONE buttons

Used to select a Tone Group (see "Selecting Tones" on page 28).

23. WHOLE button

Press this button when you want to select one tone for the entire keyboard. Can be used in Piano Style Arranger mode (see page 35).

24. LOWER button

Press this button to split the keyboard into a Lower and an Upper section (if the WHOLE indicator lights). In Split mode, you can press to it to assign a different Tone to the Lower part.

25. UPPER button

See above. This time, however, you can select a Tone for the Upper part.

26. DRUMS/SFX button

Press this button to assign drum sounds or sound effects (SFX) to the keyboard.

27. TRANPOSE buttons

Change the key of the music being played.

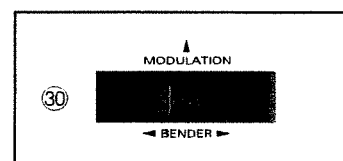
28. MELODY INTELLIGENCE button

Press this button to add a harmony to the melody you play.

- *Note: This function does not process the microphone signal.*

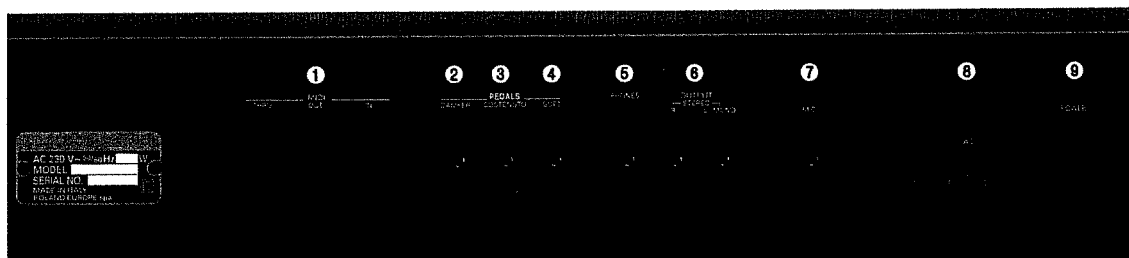
29. Disk drive (front, right side)

Used for playing back material recorded on floppy disks, or saving and loading songs or settings to/from disk.

**30. BENDER/MODULATION lever**

Use this lever to bend the notes of the Realtime part you are playing or to add some vibrato. See "Pitch Bend, Modulation, and Transpose" on page 27.

2.2. Rear panel



1. MIDI connectors (IN/OUT/THRU)

Use these connectors to exchange MIDI data with external MIDI devices.

2. DAMPER jack

This is where you can connect a DP-6, DP-2, or Boss FS-5U footswitch that allows you to sustain all notes being played on the keyboard and all subsequent notes you play while keeping the footswitch depressed.

3. SOSTENUTO jack

This is where you can connect a DP-6, DP-2, or Boss FS-5U footswitch that allows you to sustain the notes being played on the keyboard at the time you press the footswitch. All subsequent notes, however, will not be sustained. The function of this footswitch is programmable (see "Pedal (footswitch) functions" on page 66).

4. SOFT jack

Yet another optional footswitch can be connected to this jack. If you do not change the factory settings (or in Whole mode), it performs the same function as the Soft pedal on a grand piano, i.e. it reduces the volume of the notes being played.

5. PHONES jack

This is where you can connect a pair of headphones (preferably Roland RH-120 or RH-80). Connecting a pair of headphones to the PHONES jack turns off the built-in speakers.

6. Output R/L (MONO) jacks

To connect the E-500 to an external amplifier or mixing console, or to record your music with a tape recorder, connect these jacks to the external device (see "Sending audio to external equipment" on page 14).

7. MIC jack

This is where you can connect a microphone. Be sure to only use a Roland DR-10 or DR-20, or the dynamic microphone of your Karaoke set (see "Using a microphone" on page 25).

8. AC inlet

The AC power cable connects here.

9. POWER switch

Turns the instrument On and Off.

3. Before using the E-500

3.1. Setting up the music rest

The metal music rest can be installed by sliding the protruding edges into the holes on the front panel.

3.2. Connecting the power cord

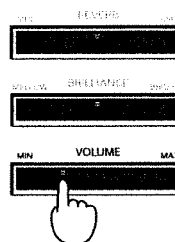
1. Set the [POWER] switch at the back of the instrument to the OFF position.
2. After plugging the power cord included with your instrument into the AC inlet jack, plug the other end into a wall socket.

Note: Please use only the power cord supplied with the E-500.

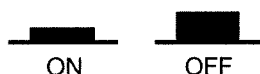
Note: If you are not going to use the instrument for some time, unplug the power cord from the socket.

3.3. Turning the instrument on and off

1. Before turning the instrument on, lower the volume with the [VOLUME] slider on the front panel.



2. Press the [POWER] switch on the back of the E-500.



The power is ON when the switch is pressed.

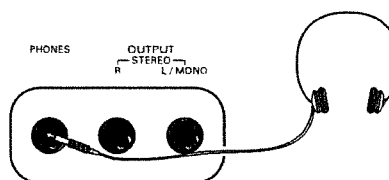
The power is OFF when the switch is pressed again.

A few seconds after turning the power on you will be able to hear the notes you play on the keyboard.

Note: In order to protect its circuits, the instrument requires a few moments after powering up before it is ready for operation.

3.4. Using headphones

The PHONES jack is where you can connect a pair of stereo headphones (preferably Roland RH-80, RH-120) that carry the same signal as the one sent to the OUTPUT STEREO R, L/ MONO jacks. Connecting a pair of headphones to the PHONES jack turns off the built-in speakers.



The volume of the headphones can be adjusted using the main [VOLUME] slider.

Note: Please use stereo headphones, preferably the Roland RH-120.

Note: Listening at excessive volume levels for extended periods may result in impaired hearing – please take appropriate caution.

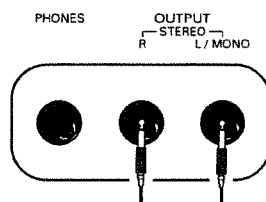
3.5. Connecting external amplifiers and other devices

If the E-500's amplification system doesn't deliver enough power for your application, you can take advantage of its OUTPUT STEREO jacks.

Sending audio to external equipment

Before connecting the E-500 to another piece of equipment, turn off the power to both devices.

If you wish to amplify the E-500 through an external system, or record your music using a tape recorder, connect the E-500's OUTPUT jacks to the AUX IN, LINE IN, or CH IN jacks of the external (keyboard) amplifier, mixer, or tape deck.



To the AUX IN/LINE IN jacks of the external amplifier/mixer, etc.

Note: If you are connecting the E-500 to a device with a monaural input, be sure to use the L/MONO jack.

Note: For cassette decks or HiFi amplifiers, you need audio leads with mono jacks at one end and (usually) RCA/cinch jacks at the other.

After connecting the E-500 to the amplifier, etc., be sure to switch on the E-500 and the external device(s) in the following sequence:

1. First turn on the power to the E-500.
2. Then turn on the power to the mixing console, amp, etc. (in that order).

If you are using a mixing console, first switch on the mixer, and then the power amplifier. Reverse this sequence for switching off the power.

4. Basic operation and display

The E-500 features a large-sized screen that keeps you informed about the status of your instrument and allows you to access functions for which there is (usually) no button or slider.

4.1. Typographic conventions used in this owner's manual

This Owner's Manual uses the following typographic conventions to indicate panel buttons and items appearing on the display.

[]: This indicates a button or slider on the panel.

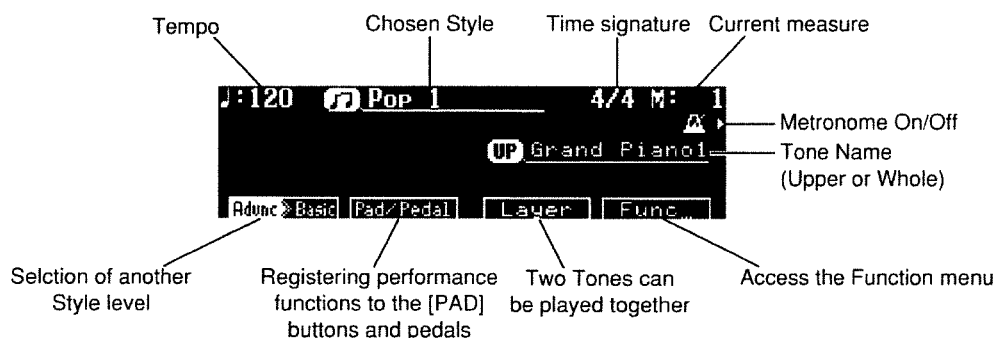
Example: the TONE [PIANO] button.

< >: This indicates an item appearing on the display. To choose such an item, press the corresponding soft button (located below or next to the item).

Example: the <Layer> button (see below).

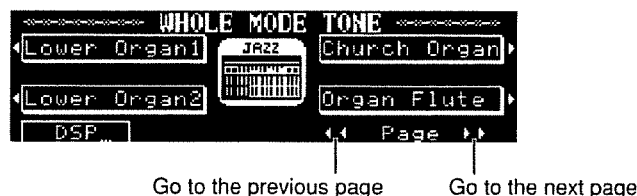
The Basic/Home screen

Here is the display page (called *Basic screen*) that will be displayed every time you press the One Touch Program [ARRANGER] button.



Note: If you can hardly read what is being displayed, see "LCD Contrast" on page 68.

Navigating through the display pages



Changing screen pages— <<<PAGE> and <PAGE>>>

Some screens may comprise multiple display pages. By pressing <PAGE>>> you will go to the next page. Press <<<PAGE> to return to the previous display page.

Retaining a screen— the [HOLD] button

Some screens are only displayed for a few seconds, after which you will be returned to the previous screen, or to the Basic screen. If you do not want the screen to change, you can “lock” the current screen on the display by pressing the [HOLD] button.

Returning to the previous screen, or to the Basic screen— [EXIT] button

By pressing the [EXIT] button, you will be returned to the previous screen, or to the Basic screen.

5. Overview of the E-500

5.1. Introduction of the E-500's main functions — [DEMO] button

Let's take a look at the most striking features of your E-500. Just follow the instructions or items that appear on the display.

1. Press the [DEMO] button.
A "Demo" screen appears on the display. The Demo screen is made up of three pages.
2. Press <▲> and <▼> to the right of the display to select another page.
The screen changes, allowing you to view the introduction to other functions.
3. Press a button below the display to choose an item.
A screen showing the functions and controls of the selected item appears.
4. Press the [DEMO] button to leave the Demo screen.

Tone and Style demo — <Sound>/<Style>

To give you a better idea of the E-500's Tones (sounds) and Music Styles (accompaniments) and their quality, the E-500 comes with a Sound and Style Demo function. Here is how to use them.

1. On the Demo screen, press <Sound> for a demonstration of the Tones, or <Style> for an explanation and demonstration of the Music Styles.
2. Press <Demo> at the bottom right of the display.
3. Use the buttons to the left and right of the display to choose the instrument you want to hear, or press <Next> to audition the next Music Style.
A demo song using the selected Tone or Music Style is played. The number of demo songs varies according to the Tone you select. When the first song ends, the next one starts to play.
4. You can start playback of the second demo by pressing the same button (or <Next>) again.
The performance stops automatically when all songs have been played.
5. Press <Exit> or <To Menu> to stop play back.

Note: See "Profiles of the composers" on page 77 for more information about the demo songs.

Note: All rights reserved. Unauthorized use of the demo songs for purposes other than private enjoyment is a violation of applicable laws.

Note: The performance data of the demo songs are not transmitted to the MIDI OUT connector.

Choosing the display language

The Basic menu and part of the Demo menu can be displayed in other languages.

1. On the Demo screen, press <Language>.
2. Use the buttons to the left and right of the display to choose the language.

Note: This setting reverts to the original language when the power is switched off. If you prefer the E-500 to select another language, see "Memory Backup" on page 70.

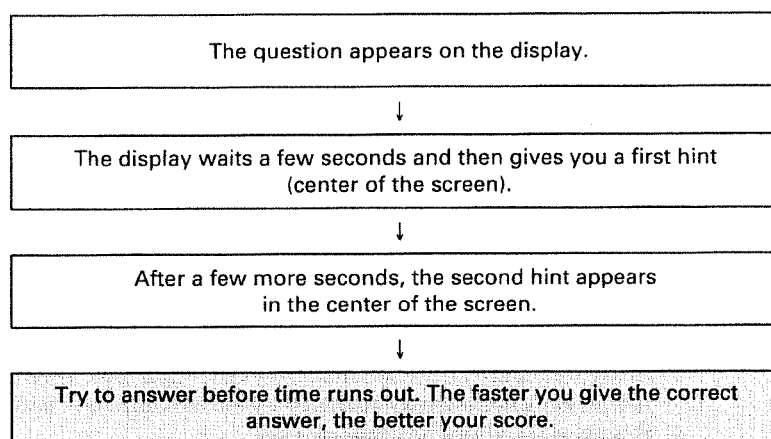
Using <Game>

The <Game> option lets you play a note- or chord-guessing game.

1. On the Demo screen, press <Game>.
2. Use the buttons at the bottom of the display to select a game.
From left to right, the games displayed are "Guess the Note", "Guess the Chord", and "Chord Practice."
Guess the Note Listen to the sound that's played, and guess what note it is.
Guess the Chord Listen to the chord that's played, and guess what notes are used to make it up.
Chord Practice Look at the chord and try to play it.

Here's how the game progresses.

3. Use the buttons below the display to choose either "Beginner" or "Advanced".



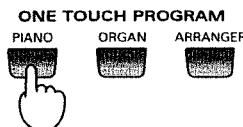
5.2. Performance functions

One Touch Program: Selecting the "instrument type"

By pressing the One Touch Program [PIANO], [ORGAN], or [ARRANGER] buttons, you will access suitable settings (registrations) for the kind music you wish to play. To play a piano piece, for instance, press the [PIANO] button. Press [ORGAN] to transform your E-500 into an organ. To play a song using the automatic accompaniment, press [ARRANGER].

Piano music — One Touch Program [PIANO]

The settings assigned to this button are loaded every time you turn the power on.



1. Press the One Touch Program [PIANO] button.
A picture of a piano will be displayed to signal that you can play a piano sound on the entire keyboard. The Tone that is selected is called "Grand Piano 1".



■ Adjusting the piano tone

With the E-500, you can simulate changes in tone of a grand piano that come about when the piano's lid is opened or closed.

2. Press the One Touch Program [PIANO] button, and the Piano screen will appear.

Pressing <▲Open> and <▼Close> adjusts the amount of the "opening" of the piano lid. Each time you press the <▲Open> button, the lid of the piano shown on the screen will open more, creating a brighter tone.

Each time you press the <▼Close> button, the lid of the piano shown on the screen will close more, creating a mellower tone.

■ Using the metronome

The E-500 features a metronome function. Use the metronome whenever you want to practice at a given tempo. By pressing the button to the right of the metronome icon, you can turn the metronome on and off.

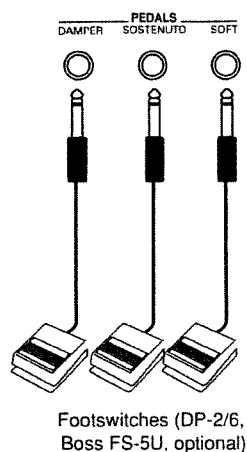
When desired, adjust the tempo with the TEMPO [+] and [-] buttons. Pressing the [+] and [-] buttons simultaneously will return the keyboard to the default (preset) tempo.

Note: You can change the metronome's volume and time signature. Please refer to "Metronome Volume and Beat" on page 68.

Note: The metronome always uses the same time signature (beat) and tempo as the currently selected Style.

■ Using footswitches

The E-500 features three pedal jacks: Damper, Sostenuto, and Soft. You can connect optional footswitches (Roland DP-2/DP-6 or Boss FS-5U) to these jacks. Each time you switch on the E-500, or whenever you press the One Touch Program [PIANO] button, the functions of these optional footswitches are as follows:



SoftPressing the Soft pedal yields a softer tone.

SostenutoWhen you step on the Sostenuto pedal, only the notes you are playing at that time are sustained. Subsequently played notes will not be sustained.

DamperPress the Damper pedal to sustain all notes being played.

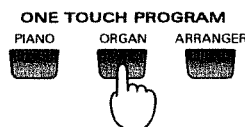
Note: The functions of the footswitches differ in Arranger and Split modes. See also "Pedal (footswitch) functions" on page 66.

■ The Function menu — <Func...>

This feature is used to make various useful settings for piano performances. For more detailed information, please refer to "Function menu" on page 60.

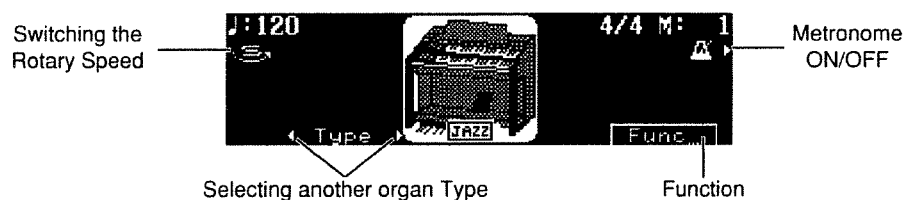
Please note that your E-500 comes with a variety of Tones (not just piano sounds). See "Selecting Tones" on page 28 for how to select them.

Organ music — One Touch Program [ORGAN]



Press the One Touch Program [ORGAN] button.

A picture of an organ will appear on the screen, with the keyboard being split at B3 into Lower (left hand) and Upper (right hand) parts.



The Tones currently assigned to the left (Lower) and right (Upper) halves of the keyboard are called "Lower Organ 1" and "Jazz Organ 1". These Tones make up the Jazz Organ type. See below for how to choose another organ Type.

■ Adjusting the Rotary Effect

The Jazz Organ has a rotary effect added to it. This simulates the effect obtained with those famous rotary speakers that are indispensable for a true organ sound.

To change the rotation speed, press of the soft button assigned to this function. Each press toggles the rotation speed between S (Slow) and F (Fast).

■ Selecting an organ Type

Use <◀ Type> and <Type ▶> to make your selection. The selected organ Type is memorized until power is turned off. In other words, if you select another One Touch Program mode and then press [ORGAN] again, the E-500 will use the last organ Type you selected.

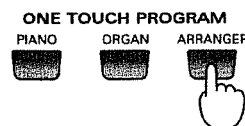
Note: When the power is switched off, the E-500 reverts to "Jazz Organ".

■ The Function menu — <Func...>

This feature is used to make settings for the various functions related to organ performances. For more detailed information, please refer to "Function menu" on page 60.

Accompaniment — One Touch Program [ARRANGER]

The E-500 comes with an "Arranger" function that provides an automatic, yet interactive, accompaniment you can use as backing for your melodies and solos. 111 accompaniments (called *Music Styles*) covering all popular musical genres are built-in. Other Styles can be loaded from the supplied floppy disk, while you can also create your own Styles.

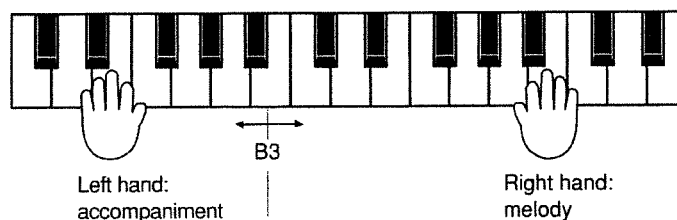


The Arranger is interactive: it always adapts the key of the accompaniments to the chords you play (see "What is an Arranger?" on page 34).

■ Simple explanation of how to use the Arranger

Here's what you need to do to be able to use the E-500's Arranger:

1. Press the One Touch Program [ARRANGER] button.



The keyboard is now split at B3 into a Lower (left half of the keyboard) and an Upper section (right half).

2. Select a Music Style (see "Selecting Music Styles" on page 36).

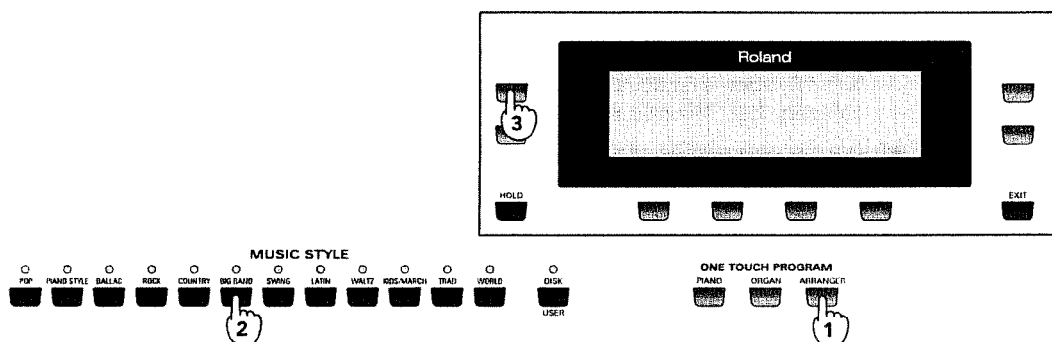
3. Play a chord in the Lower section to start the accompaniment.

Style playback starts with an introduction. Wait until the Intro is finished before you start playing the melody in the Upper section. If the accompaniment is too fast, you can slow it down with the TEMPO [-] button.

The E-500 has a number of features that will facilitate playing with the Arranger:

- For major chords, you only need to press the key of the root note (see "Easy fingering – Chord Intelligence" on page 42).
 - You can release the keys in the Lower section after playing the desired chord. The Arranger will go on playing in that key until you play another chord.
4. At the end of your song, press the [INTRO/ENDING] button.
- How about trying using the Arranger in a real-life situation? We've prepared a little piece you probably know. Here's what to do to play it:

Example: "When The Saints Go Marching In"



1. Press the One Touch Program [ARRANGER] button.
The Basic screen will be displayed. The names of the chords you play in the Lower section appear on the display:

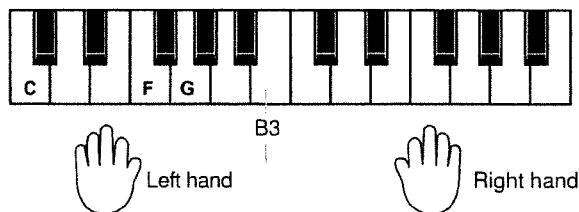


2. Press the Music Style [BIG BAND] button.
3. From the list of Music Styles shown on the display, select <Jazz Band>.



(The Style "Jazz Band" has now been selected.) After a few seconds, the display returns to the Basic screen.

4. Start the accompaniment by pressing the C key (see the score for the chords to play).
As explained above, this is the easy way of playing chords: by pressing the C, you actually play a C major chord.
The Arranger will start with an eight-measure Intro. Wait until the Intro is finished before playing the melody.
Here are the "chords" you need for "The Saints":



Remember that you can slow down the tempo by pressing the TEMPO [-] button. If you think the accompaniment is too slow, press TEMPO [+] instead.
Pressing the [+] and [-] buttons simultaneously will return the Arranger to the default tempo of the *Jazz Band* Style.

5. At the end of the song, press the [INTRO/ENDING] button.

If you would like to play the song again, press the [SYNC] button and play the first chord (C).

Note: There are various ways to start and stop a Style. Please refer to "Starting and stopping Styles" on page 37.

When The Saints Go Marching In

American Traditional

First Section (8 measures):

Right: C (Eight-measure Intro)

Left: C chord

Right: C E F G C E F

Second Section (8 measures):

Right: G C E F G E C E

Left: G D E E D C C E G

Left: G chord C chord

Third Section (8 measures):

Right: G F E F G E C D

Left: F chord C chord G chord

Final Section (First and Second Endings):

Right: C C E F C

Left: C chord C chord

Arrows point to "To Variation" and "Intro/Ending" buttons.

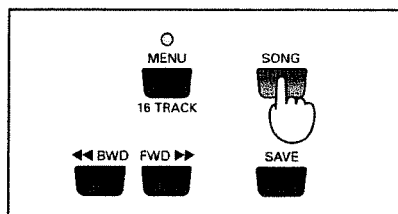
Once you feel you master the basic version of "The Saints", try adding some variation here and there. Where "To Variation" is indicated in the music, press the Fill In [TO VARIATION] button. Of course, there is a lot more you can do with the E-500's Arranger.

5.3. Playing back songs on disk

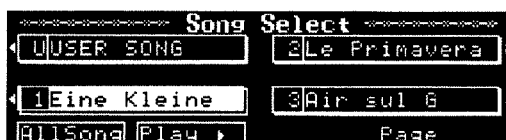
The E-500 is fitted with a floppy disk drive. Among other things, it allows you to listen to commercially available music data (Standard MIDI Files), or songs you created and saved onto disk. Here is how to listen to such music data:

Note: Before using disks, please carefully read "Before using floppy disks" on page 8.

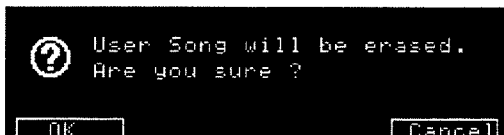
1. Insert the music data disk into the floppy disk drive.
2. Press the [SONG] button.



The "Song Select" function will be displayed.



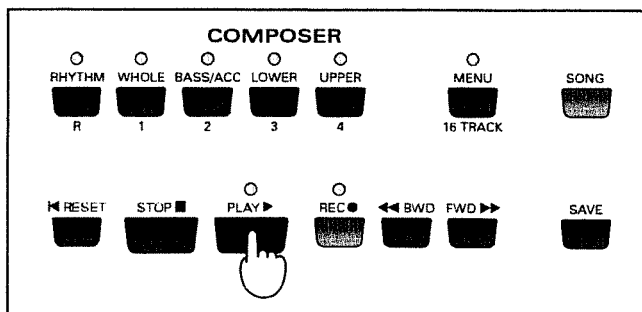
Every song you play back from disk is automatically copied to the E-500's internal Composer memory. (The advantage of that is that you can remove the music data disk after listening to the song once.) If the E-500's memory already contains a song, the following message appears:



If you don't want to lose the song in the E-500's internal memory, press <CANCEL> and see "Saving a song to disk" on page 49. Otherwise, press <OK>.

Selecting and playing back Songs

3. Use the buttons next to the display to select the song you want to listen to.
If not all songs of the disk fit on one page, use <◀◀PAGE> and <PAGE>>> to jump to the desired Song Select page.
4. Press <Play>> or the [PLAY] button.



The performance will begin. After several seconds, the display returns to previous screen.

Note: For songs that do not begin on the downbeat of the first measure, "PU" (Pickup) will be displayed when the song begins. After that, measure numbers will be displayed.

5. **Playback stops automatically at the end of the song.**

You can stop playback any time by pressing <Stop■> or the [STOP] button.

If you press the [RESET] button, playback stops and the song is rewound to the beginning of the first measure.

Listening to all songs one after another

6. **Press <All Song>.**

The entire group of songs will begin playing in order. The set will repeat if you do not stop the performance.

7. **To stop playback, press <Stop■> or the [STOP] button.**

If you press the [RESET] button, playback stops and the song is rewound to the beginning of the first measure.

Rewinding and fast forwarding

By pressing the [FWD] and [BWD] buttons, you can advance to later measures or return to previous ones. Doing so allows you to start playback from the desired measure.

Each press of one of the buttons moves you ahead or back one measure at a time, and when you hold the button down, the movement is continuous.

Note: Depending on the size of the song data, rewinding and fast forwarding may take some time.

Note: It is also possible to mute one of the song parts and play it yourself. See "Track Mute: Muting specific tracks" on page 48.

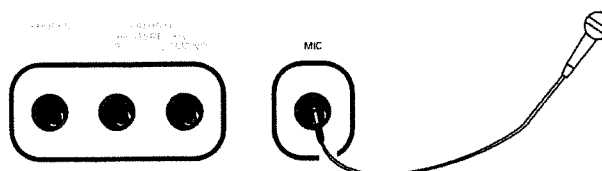
Note: The E-500 provides a function for practising difficult passages. Such passages can be marked and repeated over and over. See "Marker function: repeatedly playing back the same section" on page 61 for details.

Using a microphone

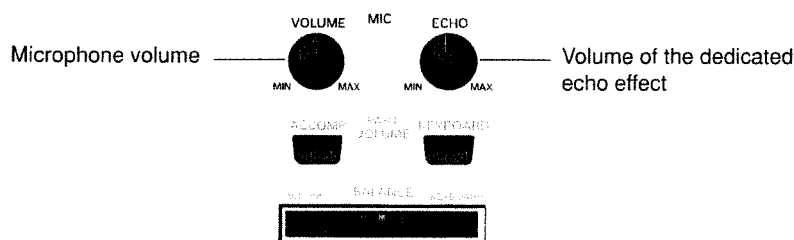
The E-500's MIC input allows you to connect a microphone (such as the Roland DR-10 or DR-20) and to sing to the music you play on your instrument. Depending on the Standard MIDI File data you use, the words of the selected song may appear on the display (*Lyrics* function). Ask your Roland dealer for details about Lyrics data.

(See also "Lyric: switching off the display of lyrics" on page 68 if you don't want to see the lyrics.)

The MIC jack is located on the rear panel.



Adjust the microphone volume with the MIC [VOLUME] knob.



The E-500 also provides a dedicated echo effect for the microphone signal. To adjust the amount of echo, use the MIC [ECHO] knob.

Note: Please think of the neighbors when playing late at night or early in the morning. If possible, play at a reasonable volume, or better still, use headphones, preferably the Roland RH-120 or RH-80.

Note: Please use the microphone of your home Karaoke set. If you need to buy one, consult your Roland dealer. The Roland DR-10 or DR-20 may be a good choice.

Caution when using a microphone

If the MIC [VOLUME] control is turned up when the microphone is plugged into the instrument, noise may be produced by the speakers. Please lower the microphone volume before connecting the mike to your E-500.

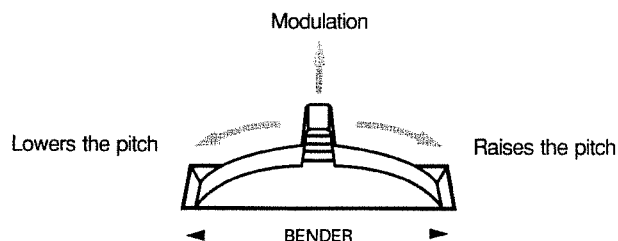
Depending on the position of the microphone relative to the unit's speaker, a "howling" noise (feedback) may be produced. If this happens, point the microphone in a different direction, or lower the microphone volume.

Example

Let's use the Karaoke function with a music data disk sold by Roland.

1. Insert the music data disk into the floppy disk drive.
2. Press the [SONG] button.
The Song Select screen will appear.
3. Select a song using the buttons located to the side of the display screen.
4. Press the Composer [UPPER] button (indicator goes out).
You have just switched off the melody part.
5. Press <Play>.&br/>Playback will begin, but without the melody. Go ahead and sing along with the accompaniment!
6. Playback stops automatically at the end of the song.
To stop while during playback, press <Stop> or [STOP].

5.4. Pitch Bend, Modulation, and Transpose



Turn the BENDER/MODULATION lever towards the right to bend the notes you are playing upwards, or to the left to lower the pitch. Release the lever to return to the standard pitch.

Push the lever away from you to add vibrato to the notes you are playing. Release the lever to remove the vibrato.

If you find the key of a song difficult to sing in, select a different one with the TRANSPOSE \flat / \sharp buttons.

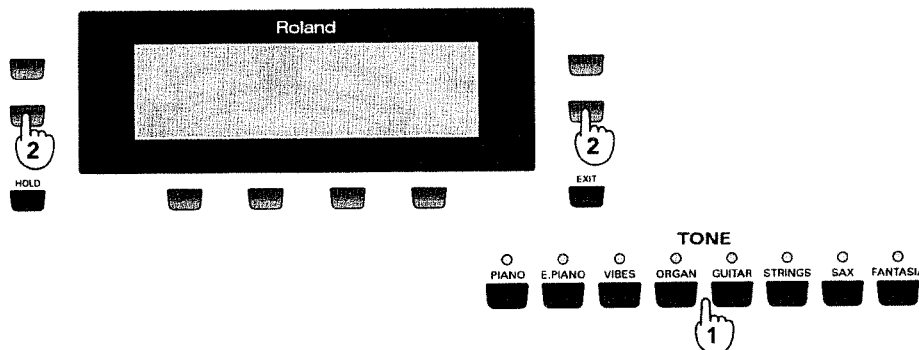
Each time you press the \flat button, the key will be lowered a semitone; each time you press the \sharp button, the key will be raised a semitone. Pressing the \flat / \sharp buttons simultaneously will return the song to the original key.

Note: The transposition interval can also be set via the display. See "Key Touch/Key Transpose" on page 67 for details.

6. Tones and related functions

6.1. Selecting Tones

The E-500 comes with a host of instrument sounds (called *Tones*). These Tones are divided into eight categories, called *Groups*.



Selecting "normal" Tones

1. Press the **TONE** button of the Group that contains the Tone you need (see the Tone list on the front panel).
The button's indicator will go on, and a Tone select screen (e.g. Whole Mode Tone) will be displayed.



Each Tone Group contains a varying number of Tones.

2. Select a Tone by pressing the buttons to the side of the display screen.
The name of the Tone selected will be highlighted on the display. Play a few notes on the keyboard to confirm that the Tone is what you had in mind.
The Tone Select screen is composed of multiple pages. Use <◀◀PAGE> and <PAGE>>> to turn to another page.

Note: If you want to try out several Tones from a Tone Group, pressing the [HOLD] button will lock the Tone Select screen and keep it from vanishing after a few seconds of inaction.

Note: See "Normal Tones" on page 79 for the number and kinds of Tones each Group contains.

You may have wondered why we used "Normal Tones" rather than just "Tones". That is because the above procedure does not provide access to all Tones the E-500 contains. See "Selecting Expansion Tones" for more details about how to access *all* Tones.

Note: See also "Selecting Tones for the Upper and Lower parts" on page 33 for how to assign Tones in Split mode.

Selecting Expansion Tones

Expansion Tones can only be assigned to the Upper part (Whole Keyboard, Split, and Arranger modes).

Caution: Expansion Tones are only temporarily selected and cannot be written to a User Program (see page 64). Whenever you select another mode (for example, if you change from Whole mode to Split mode), the Upper part returns to last "normal" Tone you selected.

1. Press [UTILITY] and use <◀◀PAGE> or <PAGE>>> to select the following display page.

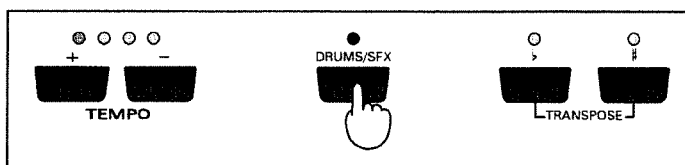


2. Use the buttons to the left and right of the display to select a Tone.
See "Expansion Tones" at the end of this manual for a list of the available Tones.
Note: You can use Expansion Tones for recording the melody with the E-500's Composer (see page 46).

Drum sounds and sound effects — [DRUMS/SFX]

Instead of playing melodies, you can also "drum" on the E-500's keyboard, or play sound effects, such as trains noises, helicopter sounds, etc.

Press the [DRUMS/SFX] button (indicator lights).



The display switches to the "Drum Screen". Every key is now assigned to a different drum or percussion sound. Play a few notes and listen – and watch the display.



Note: See "Drum Sets" at the end of this manual for details about the assignments of drum sounds and sound effects to the keyboard.

Press the [DRUMS/SFX] button once more (or the [EXIT] button), to return to the previous screen.

Toggling between drum sounds and sound effects

1. If necessary, press [DRUMS/SFX] again (indicator must light).
2. Press <SFX>.
The display will switch to the "SFX Screen". Play a few notes on the keyboard. This time, you will hear sound effects rather than drum sounds. Again, the display will show you pictures of the sounds being played.
3. Press <Drums>.
The display jumps to the Drum Screen. With each press of the button you will toggle between drums sounds and effects.

Selecting Drum Set Types

4. Press <Type> or <Type>.

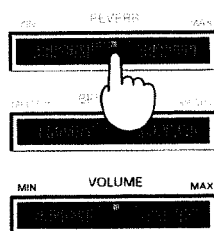
Each time you press one of these buttons, the drum set type will change, and the names of the drum sounds appearing on the display will change.

Note: There is only one SFX set.

Adding effects to Tones

Reverberation — [REVERB] slider

Reverb is a digital effect that gives the impression that you are playing in a concert hall.



Adjust the amount of Reverb effect by using the [REVERB] slider.

Moving the slider all the way to the right gives maximum Reverb, and moving it completely to the left removes all Reverb from the sound. The [REVERB] slider actually increases or decreases the Reverb Depth for the sound that is assigned to the keyboard, i.e. the part volume for the signal that is fed to the Reverb effect. Setting a high Reverb value means that you effectively increase the effect volume for the keyboard part. It works much the same way as a cathedral: the louder you sing, the more Reverb you hear. In the case of the cathedral, singing louder means that you increase the effect send level, i.e. the level of the signal (your voice) that will be processed by the acoustic environment. The overall volume of the effect (cathedral) itself, however, does not change.

That, in turn, is a good thing because other parts (the Arranger and Composer parts) are also processed by the same Reverb effect. If [REVERB] were assigned to the volume of the effect itself, setting the slider to the Min position would also strip the accompaniment of Reverb.

Note: The E-500 contains several Reverb programs (called Types), so that you can always use the Reverb type that best suits your needs. See "Reverb Types" on page 68 for details.

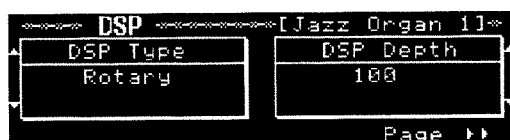
Note: You cannot adjust the Reverb Depth of the Arranger parts or the sounds played back by the Composer function.

Adding other effects — DSP effect

DSP is short for *Digital Signal Processor*. Of course, the Reverb effect is also digital, but we preferred not to use "multi-effect" here because that term may be misleading. What it boils down to, however, is that the DSP effect contains a variety of effects programs, one of which you can select for the song you are about to play. See "DSP effects" on page 76 for a list of all DSP effects the E-500 contains.

1. Select <DSP...> on the Tone Select screen.

The display now jumps to a screen similar to the following:



2. Use the buttons to the left of the display to select the Type (kind of effect), and set its Depth with the buttons to the right of the display.

Select "OFF" from the Type screen if you don't need a DSP effect.

Note: Only one DSP effect can be used at a time.

Note: When you select Upper, Lower, or Whole and choose the Rotary Effect, you can switch the rotation speed with the button at the upper left of the display.

Chorus effect

Your E-500 also contains a Chorus effect. Chorus is an effect that creates a more spacious, "fatter" sound.

After pressing <DSP...> on the Tone Select screen, press <PAGE>▶▶.

The display now jumps to a page similar to the following:



Turn the Chorus on and off with the buttons to the left of the display, and select the Chorus Depth with the buttons to the right of the display.

After several seconds, the display returns to the previous screen.

Note: The E-500 contains several Chorus programs (called Types), so that you can always use the Chorus type that best suits your needs. See "Chorus Types" on page 68 for details.

Octave Shift: changing the pitch by octaves

Octave Shift is a function that changes the pitch of a sound in octave steps. Octave Shift can be set independently for the Lower and Upper parts.

To give you an idea of the flexibility of this system, here an example: suppose you assign the same Tone (E.Piano 1) to both the Upper and Lower keyboard section. Though you are using the same sound, it is assigned to two parts you can shift individually. Thus, by setting Octave Shift to "+1" for the Lower part, while leaving it at "0" for the Upper part, you create an overlap of the octaves immediately to the left (Lower) and right (Upper) of the split point. You could use this feature for playing intricate parts.

1. Start by selecting the Tone you need on the Tone Select screen (see page 28).
 2. Select the octave (shift amount) by pressing <Octave>.
- You can raise or lower the pitch by a maximum of two octaves. After several seconds, the display will revert to the Basic screen.

Note: When you switch off the E-500, the Octave Shift settings return to their preset values. If you'd like the E-500 to memorize your settings, see "Memory Backup" on page 70.

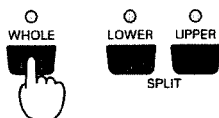
Note: When using Octave Shift, you may sometimes notice that notes to the far right of the keyboard sound in the "wrong" octave. That is because all Tones have an upper limit beyond which they cannot be transposed.

Note: You cannot use Octave Shift in Whole mode (see below).

6.2. Keyboard modes

Whole: one Tone for the entire keyboard

In Whole mode, one Tone is assigned to the entire keyboard, thus allowing you to play piano or other parts involving both your left and right hand. That explains why Whole is automatically selected when you press the One Touch Program [PIANO] button.



Press the [WHOLE] button.

The button's indicator will go on, and the Tone selected for the Upper part will be assigned to the entire keyboard.

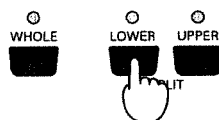
Note: If you press the [WHOLE] button while using the Arranger, the E-500 will switch to Piano Style Arranger mode (see page 35).

Split: different Tones in the left and right hand

It is also possible to split the keyboard, so that you can play two different sounds with your left and right hand, e.g. a bass sound and a piano sound. The key (or note) where the keyboard is divided is called the *split point*. You are free to choose another split point, but do remember that the E-500 automatically selects the B3 whenever you switch it off. Just for your information: the key that acts as split point is the highest note of the Lower part.

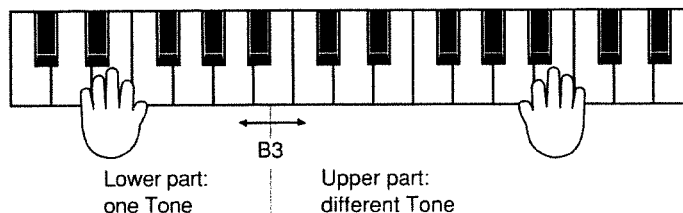
As organ playing usually involves two different sounds, the keyboard is automatically split whenever you press the One Touch Program [ORGAN] button and select "Jazz Organ".

Here is how to split the keyboard:

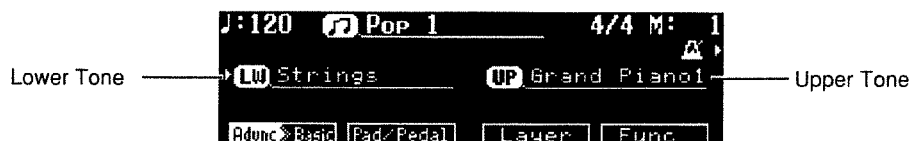


Press the SPLIT [LOWER] or [UPPER] button.

The indicators of both the [LOWER] and [UPPER] button light to signal that the keyboard has been split at the B3:



Play a few notes to confirm that different Tones are assigned to the Lower and Upper parts. In Split mode, the names of both Tones being used are displayed.



The Tone assigned to the Upper Part will be used when you switch to Whole mode (see above). When you power on the E-500, the Tone assigned to the Lower part will be "Strings."

Selecting Tones for the Upper and Lower parts

1. Press the button of the part ([LOWER] or [UPPER]) you wish to assign another Tone to. The arrow (▶) will jump to the selected Part.
2. Press a TONE button. The Tone Select screen will be displayed.
3. Select a Tone.

After several seconds, the display reverts to the Basic screen.

Note: There is no need to select a part by pressing its button when an arrow (▶) appears next to its name.

Note: You can change the location where the keyboard is split. Refer to "Lower Tone on/off and split point" on page 62.

Note: Sometimes, the pitch changes when the keyboard is split. That is because the E-500 automatically selects a suitable Octave Shift value to avoid notes sounding way too low or too high.

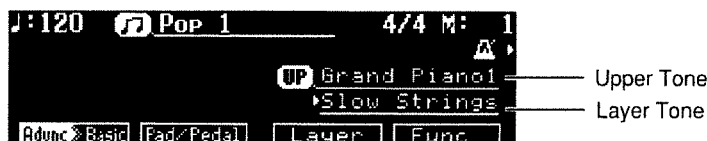
Layer: two Tones

The word *Layer* is used to describe a situation where every note you play triggers two Tones. The most popular Tone combination for layers is piano and strings but you are free to use whichever Tone combination you like.

Note: Layers are only available for the Upper part.

Here's an example of how to layer two Tones (let's use piano and strings here).

1. Press the TONE [PIANO] button and select the desired piano Tone.
2. Press <Layer> on the Basic screen.



3. Press the TONE [STRINGS] button.

The indicator of the TONE button you have just pressed will light. Play a few notes on the keyboard to confirm that the E-500 is producing a piano and a strings sound. Let's agree to call the two Tones being used "Upper Tone" and "Layer Tone".

You can now select another Tone of the Strings group, if you like. If after choosing a Layer Tone, you decide to use another Upper Tone, press <Layer> again (to leave Layer mode) and select the desired Tone (see above).

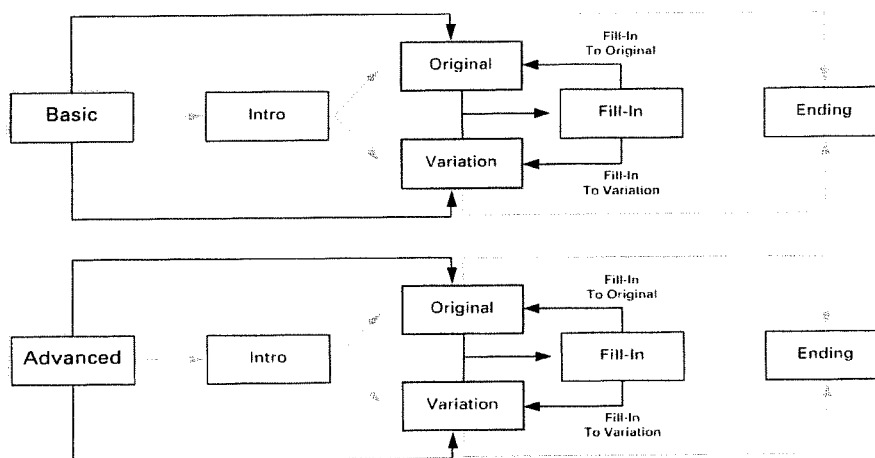
Note: Another way to select the Layer mode is to press two TONE buttons simultaneously.

7. Playing with accompaniment (Arranger)

7.1. What is an Arranger?

Think of the Arranger's Music Styles as your backing band. The following illustration shows that this suggestion is not as preposterous as it may sound because your E-500 is capable of playing several "variations" (called *divisions*) of a given accompaniment. All you have to do is make up your mind about the kind of music you want to play: is it going to be salsa, rhumba, pop-rock, or big band?

You are the band leader, which means that you have to tell the members of your band what to play. In other words, you must explain how many bars there are to each song part and how the melody and/or solo should be accompanied.



Every white square in the above illustration is called a division. Though you may not need the word here, it will help you understand how to program your own Music Styles. A division is one version of the selected accompaniment (or Music Style). As you see, there are two main levels: *Basic* and *Advanced*, each consisting of two divisions called *Original* and *Variation*.

As its name implies, Basic is the "normal" accompaniment level, with only the basic ingredients of a professional sounding accompaniment. The Advanced level, on the other hand, may contain another version of the selected Music Style or just a more elaborate one. On either level (Basic and Advanced) you can choose between the Original accompaniment or an alternative (called Variation). The latter usually adds one or two parts to the current accompaniment.

As the leader of your band, you have to tell the musicians what to play and when to play it. If you want the accompaniment to become more complex as the song evolves, here is a useful sequence:

Typical song structure

1st Verse	2nd Verse	1st Chorus	3rd Verse	2nd Chorus
Basic Original	Basic/ Variation	Advanced/ Original	Basic/ Variation	Advanced/ Variation

Other elements help you refine the accompaniment. Instead of abruptly changing to Advanced/Original, you may want to play a short transition to announce a new part of the song. That is what Fill In [TO VARIATION] and [TO ORIGINAL] are for.

See "Switching Style arrangements (divisions)" on page 41 for other Music Style divisions and functions you can use to create a professional sounding accompaniment.

Each accompaniment (or Music Style) can consist of up to five parts:

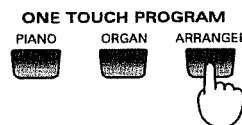
- Rhythm This part takes care of the drums and percussion.
- Bass This part plays the bass line of the selected Music Style.
- Accompaniment 1~3 These are the melodic accompaniment parts. Depending on the Music Style you selected, only a few of them actually play something, which can be anything from a piano line, a guitar line, an organ line, etc., to a synth pad line.

The bass and accompaniment parts rely on the chord or note information you play in the *chord recognition* area, i.e. the keyboard zone you have assigned to the Arranger (originally the left half of the keyboard).

Also note that you can use the drum patterns of a Music Style in other One Touch Program modes (Piano and Organ). These patterns can be started in the same way as entire Music Styles (with bass and melodic accompaniments). See "Starting and stopping Styles" on page 37.

Settings

Press the One Touch Program [ARRANGER] button.



The E-500 now automatically makes the following settings:

- The Sync Start function is turned on. This means that the Arranger will start as soon as you play one or several notes with your left hand.
- The Intro function is activated so that Style playback will start with a musical introduction.
- The keyboard is split at B3. Use your left hand to "transpose" the accompaniment pattern(s), and play the melody with your right hand.
- It selects a suitable (preset) tempo as well as an Upper Tone for the selected Music Style.

■ Additional notes

- Feel free to change the split point (see "Lower Tone on/off and split point" on page 62).
- As in Split mode, the E-500 automatically selects the most appropriate pitch for the Tone assigned to the Upper part. If you want to shift the pitch of the Upper Tone in octave steps, see "Octave Shift: changing the pitch by octaves" on page 31.
- See "Auto: changing the Arranger defaults" on page 63 if you don't want the E-500 to change the tempo and select another Upper Tone every time you choose a Music Style.

Piano Style Arranger — chord recognition on the entire keyboard

If you press the [WHOLE] button after pressing the One Touch Program [ARRANGER] button, the entire keyboard will be scanned for chord information for the Arranger. This is probably the mode you will select if you are a pianist. Let's agree to call this mode *Piano Style Arranger* mode.

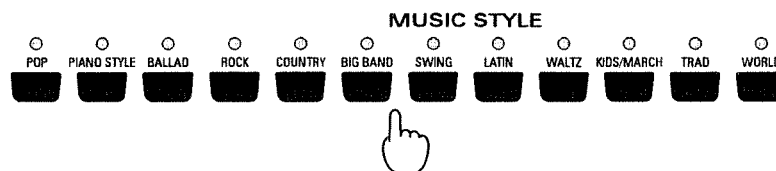
The Piano Style Arranger mode works as follows: the Arranger decodes every chord you play – no matter where you play it. Causing the Arranger to play another chord requires that you play at least a triad (i.e. the three notes that make up a chord). You are free to play more than three chord notes but remember that two notes won't cause the Arranger change chords.

Note: In Piano Style Arranger mode, you cannot use the Chord Intelligence function (see page 42). You will have to play full chords using normal fingering.

7.2. Selecting Music Styles

The E-500 contains 111 Music Styles. These Styles are divided into twelve Groups – one for each genre (see the MUSIC STYLE buttons and list on the front panel).

1. Press a MUSIC STYLE button.



The button's indicator will go on, and a "Music Style" screen, like the one shown below, will be displayed.



Once a Music Style Group has been selected, you can choose a Style from that Group.

2. Select a Music Style by pressing the buttons to the side of the display.
The name of the Music Style you select will be highlighted on the display. The Music Style screen is spread over multiple pages. Use <◀◀PAGE> and <PAGE▶▶> to jump to another page if the Music Style you need doesn't appear on the display.
As always, the display returns to the previous page after a few seconds of inaction. If you want to take your time and try out several Music Styles of the selected Group, press the [HOLD] button.

Note: The number of Styles in each group varies.

3. Play a note or chord to the left of the split point.
The Arranger starts playing the introduction of the Music Style you selected. Press the [START/STOP] button.
Note: Whenever the Arranger is not playing, the left half of the keyboard is reassigned to the Chord and Bass parts. That allows you to play your own chord backing and bass notes. You could use this for transitions, etc. See "Chord Tone Setting" on page 63 for how to assign a Tone to those parts.

Using Style disks (User Styles)

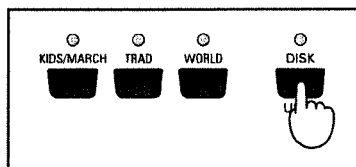
The E-500 comes with a Style Disk that contains additional Music Styles. These Styles need to be loaded into the E-500's internal memory and will be erased when you switch off your instrument.

Note: See "Internal Music Styles & disk Styles" at the end of this manual for a list of the Music Styles on the supplied Style Disk.

Note: Loading Music Styles from disk means that the Style in the E-500's User Style memory will be erased. Always save your own Styles to disk before loading another one. See "Saving User Styles" on page 57.

1. Insert the Style Disk into the disk drive.

2. Press the [DISK/USER] button.



A list of the Styles on disk will be displayed.

3. Use the buttons next to the display to select the Style you want to load.

The name of the selected Style will be highlighted.

The indicator of the [DISK/USER] button remains lit to signal that the E-500 now contains a User Style. To select it, press [DISK/USER].

Note: When you switch off your E-500, the Style you loaded from disk is erased. You will have to load it again next time you wish to use it.

Note: If you insert the Style disk into the drive before switching on the E-500, it will automatically load the "Easy Listen" Style.

Note: Unlike internal Music Styles, Styles loaded from disk contain no default Upper Tone setting.

7.3. Starting and stopping Styles

Starting a Music Style

You may remember that by pressing One Touch Program [ARRANGER] you also select a number of settings, one of which is called Sync Start. Let's look at that function first.

Starting automatically (Sync Start)

■ Starting with a musical introduction

You can start Style playback in much the same way as a band or orchestra – with a nice introduction (called *Intro*). The length of the introduction depends on the Style you selected. Some Intros are two measures long, others eight, and so on.

1. Press the [SYNC] button.



The [SYNC] button's indicator will light, and the TEMPO and [INTRO/ENDING] indicators will begin flashing.

Now all you have to do is to play a note or a chord in the chord recognition area (either the left half of the keyboard, or anywhere in Piano Style Arranger mode) to start the Arranger.

2. Play a note or chord in the chord recognition area.

The Arranger now plays the Intro pattern. The INTRO/ENDING indicator will light, and go off at the end of the Intro.

To cancel Sync Start, just press the [SYNC] button once more.

■ Shorter/simpler Intro

- Press the [SYNC] button (indicator lights).
- Press the Fill In [TO ORIGINAL] button (indicator flashes).
- Play in the chord recognition area of the keyboard. Style playback will begin with a short Intro.

■ Starting without an Intro

1. Press the [SYNC] button.
The [SYNC] button's indicator will light, and the TEMPO and [INTRO/ENDING] indicators will begin flashing.
2. Press the flashing [INTRO/ENDING] button (indicator goes off).
3. Play a note or chord in the chord recognition area.

Starting manually

If you prefer to be in complete control of the Arranger and therefore do not want it to start as soon as you play one or several notes, there are two options.

■ Starting with an Intro

1. If necessary, press the [SYNC] button to switch off the Sync Start function.
Remember that you can now play your own chords and bass notes using the Chord and Bass parts that are automatically assigned to the Lower section of the keyboard.
2. Press the [INTRO/ENDING] button to start Style playback with the corresponding Intro.



During the Intro, the [INTRO/ENDING] button's indicator will be lit. When the Intro is over, the indicator will go off.

■ Starting without an Intro

1. If necessary, press the [SYNC] button to switch off the Sync Start function.
2. Press the [START/STOP] button. The Style will begin playing.

Stopping a Music Style

There are two ways to stop Style playback:

Stopping a Style with an Ending

An Ending is usually referred to as a *Coda*. This is a musical way of ending a song, some of the most impressive examples can be found in classical music. But also in pop music, a song usually doesn't just stop. If that is what you are after, here is what to do:

Press the [INTRO/ENDING] button while the Music Style is running.

During the ending, the [INTRO/ENDING] button's indicator will be lit. When the Ending is over, the indicator will go off.

Again, the length of the Ending depends on the Music Style you select.

If you want to shorten/simplify the Ending:

- Press the Fill In [TO ORIGINAL] button (indicator starts flashing).
- While the [TO ORIGINAL] button's indicator is flashing, press the [START/STOP] button.

Stopping a Music Style immediately

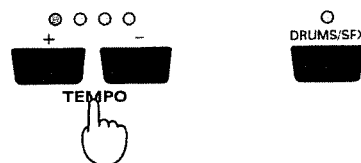
Press the [START/STOP] button.

Alternatives for starting and ending Music Style playback

Using a PAD button or a footswitch, you can fade in (whereby the volume gradually increases) to the start of a Style, or fade out (whereby the volume gradually decreases) to the end of a Style. Please refer to "Pad buttons: additional or frequently used functions" on page 65 and "Pedal (footswitch) functions" on page 66.

7.4. Style tempo

Every Style also contains a preset tempo value. If you think the Style is too slow or too fast, here is how to change it:



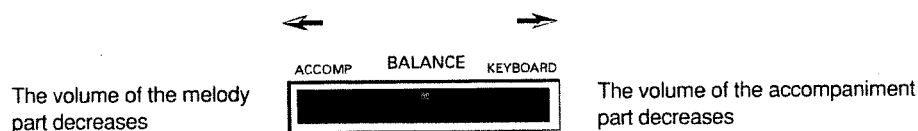
Press TEMPO [+] to increase the tempo and TEMPO [-] to decrease it.

The tempo value appears in the upper left part of the display. Additionally, you can confirm the tempo and time signature by looking at the TEMPO indicators.

7.5. Accompaniment and melody volume balance

Global balance

You can adjust the balance of volume of the accompaniment (Music Style) and the Upper Tone you use to play the melody.

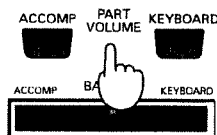


Use the [BALANCE] slider to adjust the volume.

Adjusting the volume of each part — Part Volume

The [BALANCE] slider adjusts the balance of the overall accompaniment volume and that of the melody (Upper). With the Part Volume buttons, you can adjust the volume of individual parts, or prevent a part from even sounding.

There are two Part Volume buttons: [ACCOMP] and [KEYBOARD]. Press the [ACCOMP] if you want to change the volume of an accompaniment part, and the [KEYBOARD] button to adjust the volume of a part that can be assigned to the keyboard.



Volume of the Rhythm, Bass, Accomp, and Chord/Bass Tones

These Tones are assigned or related to the Arranger (the automatic accompaniment).

1. Press the Part Volume [ACCOMP] button.

For each part, a bar graph and numerical value are displayed on the screen. The correspondence between the parts and what is shown on the screen is as follows:



<Rhythm>... Drums

<Bass>... Accompaniment Bass and Bass Tones

<Accomp>... Accompaniment parts (1~3)

<Chord>... Chord Tone (see "Chord Tone Setting" on page 63 for details about the Chord and Bass Tones)

2. Select the part whose volume you wish to adjust using the buttons below the display.
3. Adjust its volume with the <▲> and <▼> buttons.
Press the <▲> button to increase the volume, and the <▼> button to decrease it.

Volume of the Drums, SFX, Lower, Upper, or Layer Tone

These are the parts you can play yourself, which is why you need to press the other Part Volume button.

1. Press the Part Volume [KEYBOARD] button.

For each part, a bar graph and numerical value are displayed on the screen.



The correspondence between the parts and what is shown on the screen is as follows:

<Drs/SFX>... Drums and SFX (sound effects)

<Lower>... Lower

<Layer>... Layer

<Upper>... Upper

2. Use the buttons below the display to select the part whose volume you wish to adjust.
3. Use the <▲> and <▼> buttons to adjust the volume.

7.6. Switching Style arrangements (divisions)

For each Style, you can select the particulars of the orchestration (arrangement) and accompaniment pattern type. You can do this before starting a Style, or during playback of the Style.

Note: There are other Arranger functions you can use by assigning them to a PAD button. See "Pad buttons: additional or frequently used functions" on page 65 for details.

Basic/Advanced: Level

See "What is an Arranger?". At power on, the "Advanced" level is selected.

Advanced: . . . more complex arrangement with more accompanying instruments.

Basic: simple arrangement with fewer accompanying instruments.

Here is how to select the desired level:

Press <Advnc◀Basic> or <Advnc▶Basic> on the Basic screen.

The correspondence between the levels and what is shown on the display is as follows:

<Advnc◀Basic> Appears when Basic Arrangement is selected. Press <Advnc◀Basic> to switch to the Advanced level.

<Advnc▶Basic> Appears when Advanced Arrangement is selected. Press <Advnc▶Basic> to switch to Basic level.



Original/Variation: Accompaniment pattern

There are two kinds of accompaniment patterns: Original and Variation. The accompaniment pattern type is set to "Original" when power to the instrument is turned on. See "What is an Arranger?" for details.

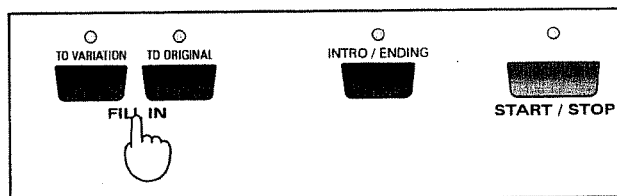
Press <To Variation> or <To Original> on the Basic screen.

Fill-Ins (transitions between Original and Variation)

Fill In To Original and To Variation are two fills (or transitions) you can use at the end of a musical phrase (verse, chorus, bridge). The two buttons do two things at a time:

	In Original mode	In Variation mode
TO ORIGINAL 	Plays the Original Fill.	Plays the Original Fill and selects the Original pattern.
TO VARIATION 	Plays the Variation Fill and selects the Variation pattern.	Plays the Variation Fill.

Press these buttons now. Start with [TO VARIATION], next press [TO ORIGINAL].



Think of a Fill as the moment in a song when the drummer is allowed to play a roll and the bassist and keyboard players vary their accompaniment by adding a few notes here and there.

Fill-Ins last one bar, but you can produce shorter fills by proceeding as follows: press [TO VARIATION] or [TO ORIGINAL] on the first through the penultimate beat of a bar (i.e. the 1st, 2nd or 3rd beat of a 4/4 bar, or the 1st or 2nd beat of a 3/4 bar) to start the fill right away. It will then last until the end of the current bar. If you press the [TO VARIATION] or [TO ORIGINAL] button on the last beat of the current bar, the fill will start on the following downbeat and last an entire bar.

Note: Every time you stop a Music Style in One Touch Program ARRANGER mode, the E-500 will select the Original pattern again.

7.7. Easy fingering – Chord Intelligence

As stated before, the Arranger relies on the chords you play for choosing the key of the accompaniment. Playing chords isn't always easy, especially when you need to concentrate on your music. That is why the E-500 features a function called Chord Intelligence. It is intelligent in that it allows you to play major chords by pressing just one key (the root note), while minor chords can be played with two keys, and complex chords with only three keys. Unlike other brands, Roland uses a musical system for simplifying chord fingering, so that once you understand the "intelligent" versions, you will have little trouble supplying the "missing" notes and playing full chords.

Note: Chord Intelligence is normally set to "On," but you can turn it off. See "Auto: changing the Arranger defaults" on page 63.

Here is how to play chords in Chord Intelligent and normal (without Chord Intelligence) modes. All examples are based on a "C" chord. For other chords, either count the distance of the indicated keys from the root note, or refer to "Chord Intelligence" at the end of this manual.

- Major chords:



Chord Intelligence



Normal

- Minor chords (m):



Chord Intelligence



Normal

- Seventh chords (7):



Chord Intelligence



Normal

- Major Seventh chords (M7)



Chord Intelligence



Normal

- Minor seventh chords (m7):



Chord Intelligence

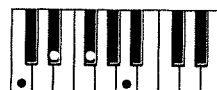


Normal

- Diminished (dim) chords:



Chord Intelligence



Normal

- Minor Major Seventh (mM7):



Chord Intelligence

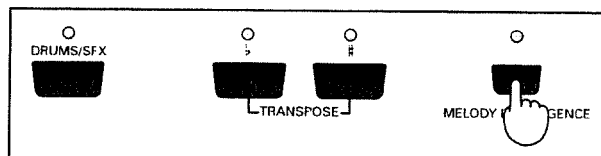


Normal

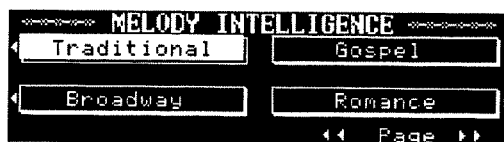
Note: Even in Chord Intelligence mode, you can play chords the usual way. Sometimes, however, you may get a result that doesn't quite live up to your expectations. Furthermore, the name of the chord that appears on the display may not be the one you thought you were playing.

7.8. Melody Intelligence

The Arranger of your E-500 can not only play chords but also a counter-melody based on the chords you play in the chord recognition area. This counter-melody will be added to the Upper part.



1. Press the [MELODY INTELLIGENCE] button to switch Melody Intelligence on (indicator lights) and off. When you press the button and the indicator turns on, harmony voices will be added to your melody. A screen like the one shown below will be displayed.



2. Use the buttons next to the display to select a Melody Intelligence type. There are five pages you can select with <<PAGE> and <PAGE>>>. Select the type you need for the song you want to play:

Duet	Broadway
Organ	Gospel
Combo	Romance
Strings	Latin
Choir	Country Guitar
Block	Country Ballad
BigBand	Waltz Organ
Country	Octave Type 1
Traditional	Octave Type 2

After several seconds, the previous screen will return to the display.

Note: When "Full Auto" or "Tempo Lock" has been selected (see page 63), the type of Melody Intelligence that is set may vary according to the Style.

Note: Please note that not all harmony voices will be played at all times, which is usually due to the fact that you play extremely high or low notes.

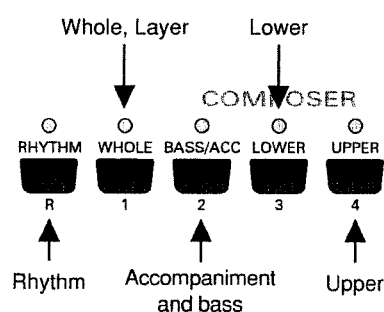
8. Recording and playback

8.1. Recording

Normal recording

The E-500 also features a “Composer” that functions like a tape recorder but is, of course, digital. You can record your own songs, as well as play songs using commercially available music data. Please be aware that the Composer records instructions (called *MIDI messages*) rather than sounds. That explains why you cannot record your singing or any other part picked up using the microphone.

You can store one song at a time. During recording, the data is automatically separated and recorded onto five separate tracks.

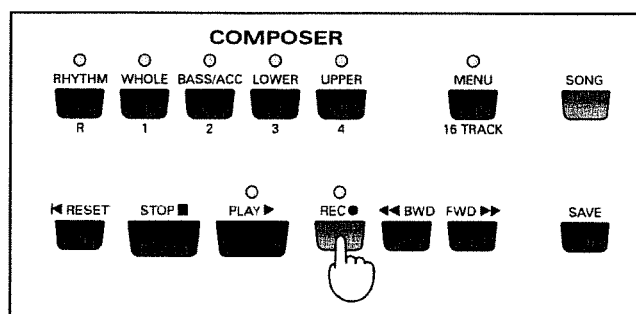


What is a track?

On devices like tape recorders, sounds that are played back via the left speaker and those that are played back via the right speaker are recorded onto separate places on tape. These “places” are called “tracks”. As you see, your E-500 provides five tracks in Normal mode, i.e. five places where MIDI messages can be recorded. The advantage of working with tracks is that you can re-record or change (edit) just one part (on one track) while listening to the other tracks.

Let's record something

1. Press the [REC] button.



The Composer goes into standby mode. The [REC] indicator lights, while the [PLAY] indicator flashes.

The tracks onto which the performance is recorded are selected automatically, and the track button's indicator will flash.

In Whole Keyboard mode, you can record onto any track except the Rhythm track. In that case, the track whose button was last pressed will be the recording track.

Note: If a disk has been inserted into the disk drive, or after playing back a song on disk, you need to press the [SONG] button to bring up the Song Select screen. Select <U: User Song> and press the [REC] button.

2. Begin recording.

- When you are ready to record the melody of a song with Arranger backing, start Style playback (see "Starting a Music Style" on page 37), and recording begins.
- To record a piano or organ piece without accompaniment, press the [PLAY] button.

Note: Remember that you can use the Rhythm section when playing a piano or organ piece. If that is what you want to do, see the preceding bullet.

Two measures of count-in will sound, after which recording will begin. The [PLAY] indicator now lights.

3. When the song is finished, press the [STOP] or [RESET] button.

The indicator on the button for the track on which the performance was recorded will light.

Note: Recording will also stop if you stop the Style (see above) by pressing either the [INTRO/ENDING] or the [START/STOP] button.

Note: It is also possible to keep the Composer from deactivating the Record Standby mode whenever you stop recording. See "Recording Mode" on page 53.

Note: If the internal memory of your the E-500 already contains a song, you will be unable to select songs from a disk. If that is what you want to do, first save your song to another disk (see "Saving a song to disk" on page 49), then erase the song in the E-500's internal memory (see "Erasing the Composer song" on page 49). Alternatively, press <OK> in response to the message "User Song will be erased. Are you sure?"

Note: Remember that there is only one DSP effect. That is why it is impossible to use different DSP types for different tracks.

Cautions to take after recording

If, after recording, the power is turned off, the recorded performance will be erased.

When you want to save performances you've recorded, please refer to "Saving a song to disk".

Recording Minus-One performances

Minus-One refers to a technique whereby a Standard MIDI File is used as backing, while you can mute the part you wish to play (usually the melody). Thanks to a clever system, you can mute any part of a Standard MIDI File and play (and record) it yourself. If you just want to have fun with a Standard MIDI File without recording your performance, see "Track Mute: Muting specific tracks" on page 48.

1. Insert a music data disk into the disk drive.
2. Press the [SONG] button.
The Song Select screen will be displayed.
3. Select a song with the soft buttons surrounding the display. If necessary, use <◀◀PAGE> and <PAGE▶▶> to jump to another Song Select page.
4. Press the [REC] button (indicator lights).
Now you need to select the track you wish to record your part to.
5. See the following table for which button to press.
As you know, the available parts are closely linked to the Keyboard modes. That is why you need to perform several actions to ensure that the right sound will be used for recording.

[Whole] Press One Touch Program [PIANO].

[Lower], [Upper] Press the [LOWER] button and select the Split mode.

[Rhythm] Press the [Drums/SFX] button and select <Drum Set> or <SFX>.

Note: You cannot record onto the [BASS/ACCOMP] track.

Note: If you select a part other than the ones shown above, nothing will be recorded on the corresponding track. Please be aware that Minus-One recording will erase all data on the selected track.

6. Press the button of the track you want to record to (indicator flashes).
7. Press the [PLAY] button.
Two measures of count-in will sound, after which recording will begin.
8. Press the [STOP] or [RESET] button to stop recording.

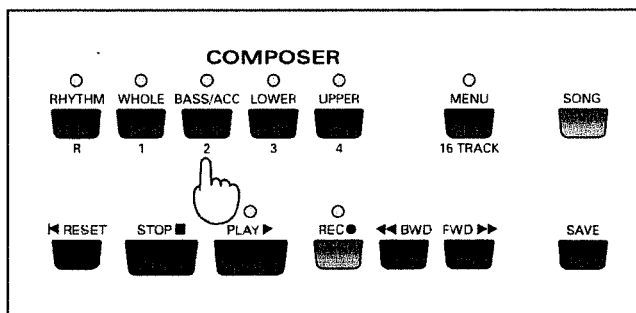
The indicator of the track button you pressed now lights to signal that the track contains data.

Note: See also "Saving a song to disk" on page 49. Be aware, however, that due to copyright protection of the Standard MIDI File you used, it may not be possible to save a Minus-One song to disk.

Note: If you record in Whole mode, the Tone of the Lower and Upper parts you are playing may change. That is because a Standard MIDI File also contains so-called program change messages that tell your E-500 which Tones to use.

Correcting minor mistakes

Let us now look at the advantages of working with tracks. If you don't like a particular line (the melody, say), you can correct it without re-recording the entire song. Here is how to:



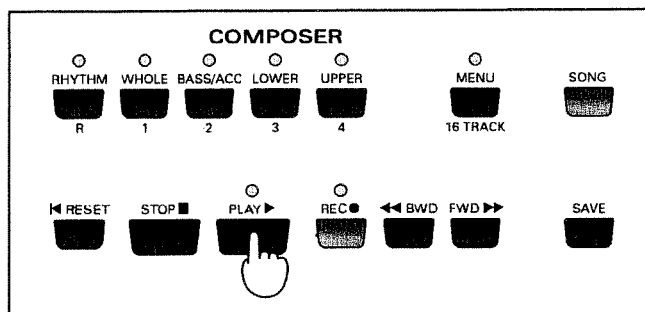
1. Press the [REC] button (indicator lights).
2. Press the button of the track you want to fix.
The track button's indicator and the [PLAY] indicator will flash.
3. Press the [PLAY] button.
Two measures of count-in will sound, after which recording will begin.
4. Play the correct (or desired) version of the part.
5. Press the [STOP] or [RESET] button when you're done.

Notes about correcting mistakes

- If the re-recorded bit is shorter than the original track, all notes that lie beyond the point where you stopped recording will remain. To erase the entire track, see "Erase: removing data from a track or song" on page 58 and go back to step (1).
- There is no need to start at the beginning of the song. Use the [BWD] and [FWD] buttons to call up the measure where you want to start recording, and press the [REC] button. Press the [PLAY] button, and recording will begin after two measures of count-in.
- It is also possible to *add* (overdub) additional notes to a track without erasing what you have previously recorded. See "Recording Mode" on page 53 for details.

8.2. Playing back a Composer song

1. Press the [RESET] button to "rewind" to the beginning of the song.
By pressing [RESET], you will actually jump back to the first measure of the song, which is similar to using the SKIP function of a CD player.
2. Press the [PLAY] button.



The recorded performance will begin to play. If there is a particular passage you want to listen to, select its measure by pressing [FWD] and then press [PLAY]. Likewise, you could rewind to a previous measure by pressing [BWD] and start playback.

3. The song stops automatically when the song is finished.
To stop while the performance is running, press the [STOP] or the [RESET] button.

Starting with a metronome count-in

By pressing the [PLAY] button while holding down the [STOP] button, you can have the song play back after two metronome count-in measures.

8.3. Track Mute: Muting specific tracks

It is also possible to temporarily switch off (mute) certain tracks. You could take advantage of this function when adding intricate (usually syncopated) parts to a complex accompaniment. Muting all distracting parts indeed helps you concentrate on the work at hand.

You can also use the Track Mute function to switch off the part of a pre-recorded song you yourself would like to play (usually the melody). Playing to a Standard MIDI File or Composer song backing is called "Minus-One Play." You can also record your Minus-One performance. Please refer to "Recording Minus-One performances" on page 46.

Press the button of the track you wish to mute (indicator goes off).

The track in question will no longer be played back. You can mute several tracks, if you like.

Press the track button once more to switch the track(s) on again.

8.4. Playing back songs without tempo changes

Some songs on music data disks contain tempo changes. When you use these kinds of songs for Minus-One play or recording, you may find it difficult to follow these tempo changes. Here is how to ignore these tempo changes.

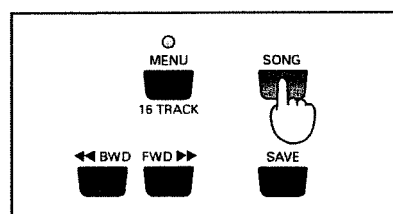
While holding down the Composer [STOP] button, press either the Tempo [+] or [-] button.

The tempo value will be highlighted on the display.

Note: If at this point you play back another song, or carry out the above step once again, the Composer will revert to the normal tempo mode and play back the song with tempo changes.

8.5. Erasing the Composer song

Here is how to erase the entire song in the E-500's internal memory. Before even thinking of doing so, you should save songs you wish to keep to disk (see below).



1. Press the [SONG] button.
A message will be displayed, asking you to confirm whether you want to erase the song if you have not yet saved the song to disk.
2. If you want to erase the data, press <OK>.
To cancel the operation without erasing the song, press <Cancel>.
After the song has been erased, the Song Select screen will be displayed.
3. Press <U: User Song> at the upper left of the display.

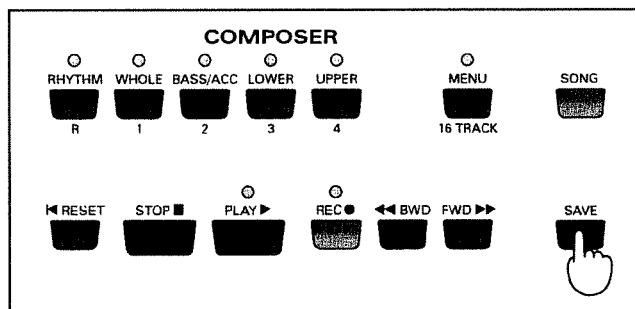
8.6. Saving a song to disk

The song in the Composer's memory is erased when the power is turned off. If you don't want to lose it, please use the method shown below.

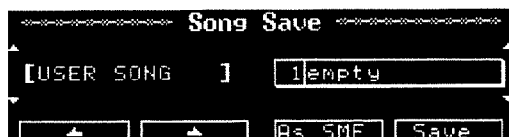
The number of songs that can be saved onto a disk depends on the amount of performance data they contain, but the maximum number of songs you can save is 99 songs.

Note: New disks or disks which have been used on other equipment cannot be used just as they are. Please refer to "Formatting disks" on page 54.

1. Insert a disk you want to save your song to into the disk drive. Make sure the write protect tab is set to "Write".
You can save onto the following disks:
 - New disks formatted on the E-500.
 - Disks already containing E-500 or KR-570 songs.
2. Press the Composer [SAVE] button.



The display now jumps to the Song Save screen.



3. Use the <▲> and <▼> buttons to the right of the display to select a song number. You can choose any number between "1" and "99". Do note, however, that selecting a song number that already contains data means that the song in question will be overwritten by your new song.
4. Enter a name for your song with <◀> and <▶> below the display, and <▲> and <▼> to the left of the screen.
The characters you can use to do this are listed below:

Blank ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ `
a b c d e f g h i j k l m n o p q r s t u v w x y z { } ~

5. Press <Save>.
Press [EXIT] instead if you do not want to save your song after all.
Note: If you get an error message sometime during the procedure, please refer to "Error messages" on page 74.

Saving songs in SMF format (As SMF)

In some cases you will not be able to play back songs straight away on other instruments (though you will have no problem playing back your songs on a KR-570). To stay compatible with the outside world, you should convert your songs to Standard MIDI File format (SMF). This is only necessary if you wish to exchange your songs with friends or colleagues or to be able to play them back on your computer.

The number of songs that can be saved onto a disk depends on the amount of performance data they contain. (Steps 1-3 are only necessary if you wish to convert another song than the one in the E-500's memory. Remember, though, that playing back a new song will erase the one in the E-500's internal memory.)

1. Insert the disk that contains the song you wish to convert into the disk drive.
2. Press the [SONG] button to go to the Song Select screen.
3. Select a song and press the [PLAY] button to start playback.
4. Stop playback by pressing [STOP] or [RESET].
5. Insert the floppy that you wish to save the SMF song to into the disk drive.
You can save onto the following disks:
 - New disks formatted on the E-500.
 - Disks already containing E-500 or KR-570 songs.
6. Press the [SAVE] button.
7. Use the <▲> and <▼> buttons to the right of the display to select a song number. You can choose any number between "1" and "99". Do note, however, that selecting a song number that already contains data means that the song in question will be overwritten by your new song.
8. Enter a name for the song with <◀> and <▶> below the display and <▲> and <▼> to the left of the screen.
9. Press <As SMF>.
If you want to cancel the operation, press the [EXIT] button.

Note: You can only convert songs that the E-500 can play back.

Note: Standard MIDI Files converted with the "As SMF" function can be played back using any GS compatible tone generator (E series keyboards, Sound Canvas module, XP-10 synthesizer, KR series instrument, HP-G series instruments, etc.). Not all GS instruments contain the same number of sounds and effects, however, so that there may be slight tonal differences.

Note: If you get an error message sometime during the procedure, please refer to Error messages.

Note: Due to copyright protection, you may not be able to save as SMF format from some commercially available music data disks.

Note: Be sure to set the protect tab of your floppy disk back to "Protect" after removing the floppy.

9. Composer Menu

Functions of the Composer Menu

1. Press the Composer [MENU] button.
The display now jumps to the Composer Menu.



Choose one of the seven functions "on the menu".

2. Use the buttons next to the display to select the function.
The Composer Menu has two pages. Use the <◀◀PAGE> and <PAGE▶▶> buttons to bring up the other page.
To leave the menu, press the [EXIT] button. The display then returns to the previous screen.

9.1. 16-track Sequencer

This sequencer allows you to record up to 16 different parts onto separate tracks using different Tones. Needless to say that you should take advantage of the sequencer to record your own songs with original arrangements.

- See "Link to 16TRK Sequencer" on page 71 for a parameter you may want to set first.
1. On the Composer Menu, press <16trk Sequencer>.
The display now jumps to a 16-Track Sequencer screen that looks similar to the following.



The [WHOLE] button also lights to signal that the E-500 will now function in Whole mode. The 16-track Sequencer indeed only uses one Tone for each track, so you cannot record in Split or Layer modes.

2. Use <◀> and <▶> to the lower right of the display to select the track you wish to record.
The currently selected track appears in reverse video on the display.
 - Drum or SFX parts can only be recorded on the "D" or "S" tracks.
3. Get ready to play.
Choose the Tone and make the necessary settings for the performance.
 - You can only assign Drum Sets to the "D" track, while the "S" track only triggers sound effects.

Use <VOL+> and <VOL-> to the left of the display to set the volume level of each track.

- To record the volume settings, press the [RESET] button while holding the [REC] button.
4. Press the [REC] button, then press the [PLAY] button.
Two bars are counted down, and after that recording starts.
 5. Press the [STOP] button to stop recording.
A "□" appears next to the track that was recorded.
 6. Repeat steps 2, 3, 4, and 5 to record other parts.
You can delete the data of a selected track by pressing <CLR>.
If you want to start recording halfway into the song, use the Composer [FWD] and [BWD] buttons to move to the desired measure.

Muting or playing selected tracks

<Mute> Choosing a track and pressing <Mute> switches off playback of that track. A dotted "□" appears next to the muted track. Each press of <Mute> toggles between Mute on and off.

<Solo> Choose a track and press <Solo> if you want to listen to a track without hearing the others. Each press of <Solo> toggles between Solo on and off.

- There is only one DSP effect, so that you can only use one DSP Type for all 16 tracks. You should therefore use a DSP Type that can either be used for several tracks or restrict the use of the DSP effect to only one track.

Tracks vs. MIDI channels

The relationship between tracks and MIDI channels is as follows:

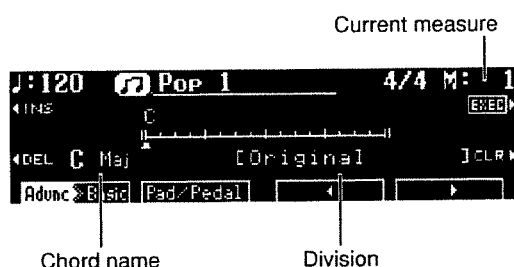
Track	1	2	3	4	5	6	7	8	9	D	S	12	13	14	15	16
MIDI channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

- When using 16-track Sequencer, the Composer's five Track buttons do not function.
- Set the beat of the metronome before recording with the 16-track Sequencer. The Composer will use the metronome settings (time signature and tempo) in effect at the time you start recording the first track.

9.2. Chord Sequencer

The Chord Sequencer allows you to “pre-program” the chord progression and Style divisions to be used by the Arranger. Doing so will allow you to concentrate on the melody because the Chord Sequencer will take care of feeding the Arranger with the correct chord information and selecting the desired Style division.

1. Press <Chord Sequencer> on the Composer Menu screen. A Chord Sequencer screen like the one below appears on the display.



(For more information on divisions, see “Muting parts of a division” on page 55.)

2. Use the MUSIC STYLE buttons to choose a Style group. After several seconds, the display returns to the Chord Sequencer screen.
3. Use <INS> to insert the desired number of blank measures for the song you wish to input.
4. Use the <<> and <>> at the bottom right of the display or the [BWD] and [FWD] buttons to move the cursor (▲) to the position where the chord and division are to be input.
5. To enter a chord, play it in the lower half of the keyboard. The chord display serves as a guide for entering chords. If you have doubts about the correct way of playing a given chord, just look at what the display says.

Here are the other things you can program:

Entering an *Intro* or *Ending*: press the [INTRO/ENDING] button.

Changing the Style Level: press <Advnc > Basic> (or <Advnc < Basic>).

Entering a *Fill-In*: press the desired Fill In button. (By assigning other functions to the PAD buttons or footswitches, you can also use functions such as “Break.”)

You can also insert and delete measures by pressing <INS>, , and <CLR> next to the display.

<INS> Inserts a single blank measure at the position of the cursor.

 Deletes a single measure after the position of the cursor, and shifts all subsequent bars to the left.

<CLR> Deletes the information (chords and divisions) at the position of the cursor.

- Activate the Leading Bass function if you wish to play complex chords, such as “Fn/C”. See “Pad buttons: additional or frequently used functions” on page 65.

6. Press the Composer [PLAY] button to check your Chord Sequence.

The accompaniment you’ve created is played, starting from the position of the cursor.

Press the Composer [STOP] button to stop playback.

7. When you’ve finished inputting the accompaniment, press <EXEC> at the right-hand side of the display.

After several seconds, the display returns to the Composer Menu screen.

8. Press the Composer [PLAY] button.

The accompaniment you’ve created is played, so try playing the melody along with the accompaniment as backing.

- Once <EXEC> has been pressed, what you’ve input cannot be corrected. Always check whether everything has been entered correctly before you press <EXEC>.
- An *Intro* can only be input at the start of a song. Entering an *Intro* causes the number of measures corresponding to the *Intro*’s length to be inserted automatically.

9.3. Recording Mode

You can select the recording method and the way that recording is stopped.

1. On the Composer Menu, press <Recording Mode>.

A screen like the one below appears on the display.



2. Use the buttons on the left side of the display to select the recording method (Rec Mode), and the buttons on the right side of the display to select how recording ends (Rec Stop).

Recording method (Rec Mode)

Replace: This is the usual recording mode. When recording to a track that already contains data, you overwrite the previous version up to the point where you stop recording. (This is also the

case when you start recording without playing anything: the Composer will then record the equivalent number of rests.)

Mix: Allows you to add new notes to an existing recording without overwriting the previous version. This mode is ideal for programming the drums because it allows you to start with the bass drum and snare drum and to add the HiHat and cymbals the second time around.

- If you choose Mix to add notes to a melodic part, be sure to switch on the Link function (see page 71). Otherwise, the track may suddenly use a different Tone.

Punch In/Out: This mode allows you to use a footswitch (or a PAD button) to start and stop recording while listening to your song. Select this mode to correct minor mistakes (such as flat notes here and there, or shaky timing of a phrase). Press the pedal (or PAD button) again to cancel recording and returns to the playback state.

Punch-in recording can only be performed when "Punch In/Out" has been set as the footswitch (or the PAD button) function. To perform recording, be sure to set the pedal function before you start. See "Pedal (footswitch) functions" on page 66 and "Pad buttons: additional or frequently used functions" on page 65.

- Punch-in recording erases the previously recorded performance (same as Replace mode).

Stopping a recording (Rec Stop)

Arranger Stop: Recording ends as soon as you stop the Arranger.

Composer Stop: Pressing the Composer [STOP] button ends recording. In this case, you can stop the Arranger and go on recording until you press the [STOP] button.

9.4. Formatting disks

In order to use new disks or disks which have been used on other equipment, it will be necessary to "format" such disks.

- When a disk is formatted, all the data stored on it is completely erased. As a rule, you should always check the contents of a used disk (either on the E-500 or on a PC) before formatting it.

1. Set the Write Protect tab on the disk to the "Write" position and insert the disk into the disk drive.
2. Press <Disk Format> on the Composer Menu screen. A screen like the one shown below will be displayed.



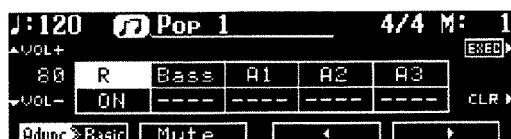
3. If you really want to format the disk, press <OK>. When the formatting operation begins, a count-down will begin on the screen. To cancel the operation, press <Cancel> shown on the screen, or the [EXIT] button.
- If you get an error message sometime during the procedure, please refer to "Error messages" on page 74.
- Never remove a disk that is being formatted. Doing so may damage both the disk and the floppy drive.

9.5. Style Composer

The E-500 has a function called "Style Composer" that lets you compile new Music Styles from existing Style parts. Thus, you could take the bass part from the "Slow Waltz 1" Style, add the drums of the "Waltz" Style and use the melodic accompaniment of the "Vienna Waltz" Style. Music Styles you create with the Style Composer (or the Style Converter, see page 56) are called "User Styles".

Every Music Style of the E-500 is made up of five parts that are assigned to Arranger tracks (see below).

- The User Style is deleted when the power is turned off. Do not forget to save it to disk (see "Saving User Styles" on page 57).
1. On the Composer Menu screen, press <Style Composer>. The rhythm part of the currently selected Music Style is played back, and a screen like the one below appears on the display.



The part names are displayed at the center of the screen. The part that appears in reverse video is currently selected.

The Track buttons correspond to the parts as follows.

Arranger track	Display	Track button
Rhythm	R	[Rhythm]
Bass	Bass	[Bass/Accomp]
Accompaniment 1	A1	[Lower]
Accompaniment 2	A2	[Upper]
Accompaniment 3	A3	[Whole]

The tempo of a "composed" Style is determined by the tempo of the "R" track. You can change it, however, with the TEMPO [+]/[-] buttons.

- You cannot use Arranger parts of a User Style because the E-500 has only one User Style memory – the one you are copying Style parts to.
- Use the MUSIC STYLE buttons and the buttons next to the display to select the Style that contains the desired rhythm part.
Every time you select another Music Style, the rhythm that is played back changes. After several seconds, the display returns to the Style Composer screen.
 - After choosing the rhythm, use <◀> and <▶> at the lower right of the display to select another part.
You can also choose a Part by pressing the Track buttons (see above). The selected part will be played along with the "R" and any other part you have already copied.
 - Repeat steps 2 and 3 to make the settings for the remaining parts.
You can use <VOL+> and <VOL-> to the left of the display to set the volume level for each track.
 - Press the <EXEC> button or the Composer [REC] button to confirm your settings.
The User Style is temporarily saved in the memory assigned to the [DISK/USER] button (indicator lights) and can be selected by pressing this button (see also "Using Style disks (User Styles)" on page 36).
You can also use the Composer [REC] button to end your programming session. To stop the operation, press the [Exit] button.
- You can press <Advc ▶Basic> (or <Advc ◀Basic>) at the lower left of the display to change the Style Level.

- Please note that Rhythm parts can only be assigned to "R", while bass parts can only be assigned to "Bass". The "A" parts, on the other hand can be freely assigned to memories A1~A3.

As stated earlier, not all Music Styles use all available Arranger tracks (R, Bass, and A1~A3). If a given track is empty, select another one. Likewise, you don't have to copy Style parts to all available Arranger tracks.

Editing your User Style

See the above chart for the correspondences between Track buttons and Arranger parts.

- On the Composer Menu screen, press <Style Composer>. The User Style is played back and the indicators of all Arranger tracks that contain data light.
- Use <◀> and <▶> at the bottom of the display to select the part on screen that you wish to change.
You can also select it by pressing the corresponding Track button (indicator must light).
- Use the MUSIC STYLE buttons and the buttons next to the display to select the desired Style.
Every time the Style is changed, the parts that are played back change.
- Use <◀> and <▶> at the bottom of the display to select another part.
- If necessary, repeat steps 2, 3, and 4 until you're happy with your User Style.
Press the <CLR> button to temporarily mute the selected Arranger part.
- Press the <EXEC> button or the Composer [REC] button to confirm your settings.

Muting parts of a division

See "What is an Arranger?" on page 34 for more information about Divisions. Here is a brief summary of the available divisions: Intro, Original, Variation, Fill In To Variation/To Original, Ending.

The E-500 allows you to silence (mute) selected parts of a Style divisions.

You could, for example, mute the Accompaniment 1 part of a Variation pattern. Here's how to:

- On the Composer Menu screen, press <Style Composer>. The User Style is played back and the Track buttons of all active Arranger tracks light up.
- Press the Fill In [TO VARIATION] button to select it.
Some divisions are not played back continuously (Intro, Ending or Fill-in), so carry out the next step while the Arranger plays it back.
- Use <◀> and <▶> at the bottom of the display to choose "A1", then press <Mute>.

(You can also select another part and then press <Mute>.)

Accompaniment 1 is muted, and the Track [UPPER] indicator goes out. To switch the A1 part back on again, press <Mute> once more. Another way of muting an Arranger part is to hold down Composer [FWD] button and press the Track button assigned to the part you wish to mute. In this case, each press of the Track button toggles between playback (indicator lights) and muting (indicator off) of the Part.

4. Press the <EXEC> button or the Composer [REC] button to confirm your settings.

9.6. Style Converter

You can also program User Styles by using short phrases of a song recorded with the 16-track Sequencer (see page 52).

1. Use the 16-track Sequencer to record a performance of "Major", "Minor", or "Seventh" type.

Because only certain tracks can be converted to Style data, you should record the performance on the following tracks.

Track	Arranger Part
2	Bass
7	Accomp1
8	Accomp2
9	Accomp3
D	Rhythm

If you want to create a "professional" Style, don't forget to program the Intro, Fill-ins, and Ending as you record.

- You want to brush up your song data before converting them into a User Style. See "Song Edit" below for details.
2. On the Composer Menu screen, press <Style Converter>. A screen like the one below appears on the display.



3. For each division, select the bars to be used, the key, the chord type, and other settings. Use <◀> and <▶> at the bottom of the display to select the items to be set, and use the buttons on the left to change the settings. Press <CLR> to disable a setting.

Division: Accompaniment pattern.

From: Starting measure of the excerpt.

For: Number of bars from the starting measure.

Key: Key of the excerpt.

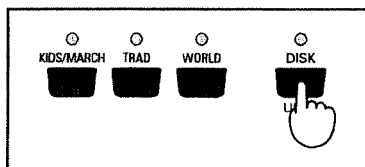
Chord: Chord type of the excerpt (select Major, Minor, or Seventh.)

4. Press the Composer [PLAY] button to listen to the isolated passage.
5. After you've checked all the divisions that you want to make settings for, press <EXEC>. The Style is saved to the [DISK/USER] button.
 - For information on divisions, see page 34.
 - Only certain tracks can be handled as Style data. If the performance has been recorded with the Composer, or if the song data is not on the specified tracks, use Track Exchange on the Edit screen to change the tracks. See "Track Exchange/Track Copy: swapping and copying tracks" on page 59.
 - If "Fill to Variation" or "Fill to Original" has been chosen for "Division", only one measure can be cut out.
 - Preset selections are used for divisions which are not selected.
 - Be careful to remove all data types except the following from your song before converting it to a User Style: Performance information from the keyboard (notes and pedal information), Reverb Depth, Chorus Depth.
 - Once <EXEC> has been pressed, the previous settings cannot be recovered.

9.7. Saving User Styles

You can save User Styles onto floppy disks. You can call up Styles that have been saved to disk in the same way you do with Style disks.

1. Insert a formatted disk or a disk that already contains E-500 or KR-570 User Styles into the disk drive.
2. Press the [DISK/USER] button.



The Song Select Screen will be displayed.

3. Press <Save>.
 4. Select a number with the <▲> and <▲> buttons to the left of the screen.
You can choose any number between "1" and "99". Do note, however, that selecting a User Style number that already contains data means that the Style in question will be overwritten by your new User Style.
 5. Enter a name for the User Style with <◀> and <▶> below the display and the <▲> and <▼> buttons to the left of the screen.
Please refer to "Saving a song to disk" on page 49 for the list of the available characters.
 6. Press <Save>.
- If you want to cancel the operation, press the [EXIT] button.

9.8. Song Edit

The E-500 has eight functions that you can use to edit the songs you have recorded.

Note: After carrying out one of the following functions, it may be impossible to restore the previous settings. Also, songs recorded with Arranger backing may sometimes yield surprising (and highly irritating) results. We recommend that you save your song to disk before editing it.

Steps for editing

1. On the Composer Menu screen, press <Song Edit>.
An Edit Menu screen like the one below appears on the display.



2. Use the buttons next to the display to choose the editing function.

The Edit screen has two pages. Use <◀> and <▶> to bring up the other page.

1. Changing the Tempo and Volume of a song – Setup.
 2. Aligning imperfect Notes – Quantize
 3. Erasing notes or tracks – Erase
 4. Duplicating phrases – Copy
 5. Deleting measures – Delete
 6. Inserting blank measures – Insert
 7. Changing the key – Transpose
 8. Swapping and copying tracks – Track Exchange/ Track Copy
- To cancel an operation, press the [EXIT] button.

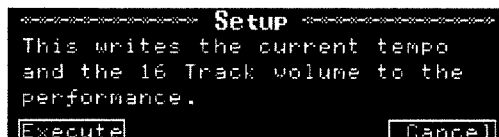
You can also edit a song on a floppy disk: Insert the disk in the disk drive and play back the performance one time. Then edit it.

Setup: tempo and volume

Changes in tempo and volume that are made with the TEMPO and Part Volume buttons or the [BALANCE] slider are only temporary. If you like your new settings better than the original ones, here is how to correct your song:

Before selecting the Song Edit screen, set the tempo by pressing the Tempo button, and set the volume of the tracks you want to change in the 16-track Sequencer screen.

1. Press <Setup> on the Edit screen.
A screen like the one shown below will appear.



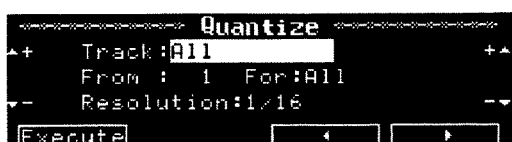
2. Press <Execute>.
The new tempo and volume values are stored.
- You can also change the setting by holding down [REC] and pressing the [RESET] button.

Quantize: timing corrections

Quantize is a function that corrects minor timing problems. It shifts the notes whose timing is not exactly right to the nearest "correct" unit.

Be careful, though, because the timing of the quantized notes may be mathematically correct, while the result is not what you expected. Always select a resolution value that is fine enough to accept all note values you play. If the shortest notes of your accompaniment are 1/16th note triplets, set the Resolution value to 1/16t.

1. Press <Quantize>.



2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.

Track: Track number (you can also select "All" tracks)

From: The starting measure

For: The number of bars from the starting measure (you can also select "All" measures").

Resolution: Note value to be used for correcting the timing. (Select the length of the shortest note of the data to be quantized.)

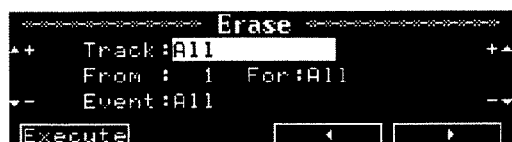
3. Press the <EXEC> button to confirm your settings and edit the data.

Erase: removing data from a track or song

Erase is a function that erases a portion of the selected song, without removing the measures themselves. That will leave you with the equivalent number of blank measures. You could then record new data in those measures using the Punch In/Out recording method (see page 54).

- The notes you erase cannot be restored.

1. Press <Erase>.



2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.

"Track", "From", "For": see step (2) under "Quantize: timing corrections".

Event refers to the types of data that will be erased:

- All: all data
- Note: the notes you played on the keyboard.
- Except Note: all data except the notes (e.g. footswitch, Pitch Bend, and Modulation data).
- Tempo: all tempo settings (changes) except the preset tempo.
- "Tempo" erases all tempo data, regardless of what Track numbers have been selected.

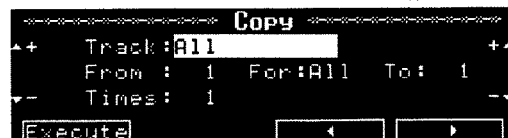
3. Press the <EXEC> button to confirm your settings and edit the data.

Copy(ing) measures

This copies a portion of a track to another bar of the same track. Use this function if you'd rather not play the chorus or verse of a song more than once.

- All data present at the copy destination is overwritten by what is copied.

1. Press <Copy>.



2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.

"Track", "From", "For": see step (2) under "Quantize: timing corrections".

To: The copy destination measure ("End" refers to the end of the song).

Times: The number of times the selected measures are to be copied.

3. Press the <EXEC> button to confirm your settings and edit the data.

Delete: removing measures

Though similar to Erase, the Delete function also removes the selected measures. You cannot select the data type to be deleted because Delete removes everything.

Delete means "remove all measures within the specified range" (for example bars 1 and 2 of a track, so that bar 3 becomes bar 1).

- Once a measure has been deleted, it cannot be restored.

1. Press <Delete>.



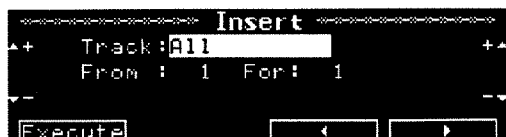
2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.
"Track", "From", "For": see step (2) under "Quantize: timing corrections".
3. Press the <EXEC> button to confirm your settings and edit the data.

Insert: adding blank measures

Insert allows you to make a track longer by adding rests at the specified position. This will make room for new data and shift data that lie behind the From position further to the right. New data can be added using the Punch In/Out method (see page 54) or by copying excerpts.

- The Insert function does not provide a To pointer. Instead, you have to specify the length of the insert using the For value. "For 2" thus means "insert 2 bars".

1. Press <Insert>.

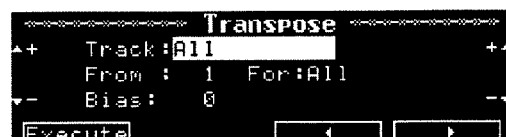


2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.
"Track", "From": see step (2) under "Quantize: correcting the timing".
For: The number of bars to insert.
3. Press the <EXEC> button to confirm your settings and edit the data.

Transpose: changing the key

Transpose allows you to change the key of what has already been recorded. It can be invaluable for tricky phrases that you want to play only once.

1. Press <Transpose>.



2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.
"Track", "From", "For": see step (2) under "Quantize: timing corrections".
Bias: Amount of transposition. A value within the range of -24~+24 semitones (-2~+2 octaves) can be specified.
3. Press the <EXEC> button to confirm your settings and edit the data.

Track Exchange/Track Copy: swapping and copying tracks

Here, you can choose to exchange the data of one track against that of another track or to copy data from one track to another (so that they both play the same from start to finish).

1. Press <Trk Exchng/Copy>.



2. Use <◀> and <▶> below the display to select a parameter, and set the value with <+> and <->.
Mode: Track Exchange: Swaps tracks
Track Copy: Copies a track
3. Press the <EXEC> button to confirm your settings and edit the data.
 - When copying a track, data existing at the copy destination is overwritten by what is copied.

10. Function Menu

The Basic, Piano, and Organ screens provide access to several convenient functions you could take advantage of for optimizing your E-500's response.

Operating procedure for the Function Menu

1. Press <Func...>.

The Function menu will appear on the screen.

2. Select a function with the buttons below the display.

3. Set the function with the buttons to the side of the display.

Simultaneously press <▲> and <▼> to revert to the default setting. The display automatically returns to the previous page after several seconds of inaction. If you can't wait to do something else, press the [EXIT] button.

If you want to cancel the operation, press the [EXIT] button before changing the settings.

Key Touch (velocity sensitivity)

You can adjust the way in which the E-500 translates the velocity data.

1. Press <Key Touch>.

The touch level will appear in the right half of the screen. Refer to this scale when making settings as you play on the keyboard.



- The velocity of the last note you played is displayed on the left-hand side of the screen. You can refer to this when setting the touch as you play the keyboard.

2. Move the arrow (▼) with the buttons to the right of the screen.

Each time you move the arrow, the touch level changes. The velocity sensitivity and the arrow correspond in the following way:

- Light** Little strength is required to play fortissimo.
- Heavy** Select this setting for maximum expressiveness: even small variations of the force with which you strike a key produce audible changes. The trade-off is, however, that you have to strike the keys forcefully to achieve the maximum volume.
- (Center)** Normal setting. Velocity sensitivity closest to that of an acoustic piano.
- You can also change the velocity sensitivity using the Utility Menu (page 67).

10.1. Piano screen functions

Metronome volume and beat

1. Press <Metronome>.

"Volume" (1-10) and "Beat" will be displayed.



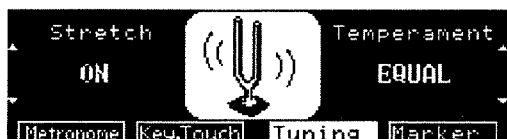
2. Adjust the volume and beat (time signature) with the buttons next to the display.

- The volume is set to "5" when the power is turned on.
- The available Beat settings are: 0/4, 2/4, 3/4-7/4, 3/8, 6/8, 9/8, 12/8. The metronome always uses the time signature of the last Music Style you selected, so that you could set the Beat by selecting a Style with the appropriate time signature.
- You cannot change the Beat in the Arranger mode or when you are using the Composer function.

Tuning

You can select the tuning of the keyboard.

1. Press <Tuning>.



■ Stretch Tuning

"Stretch Tuning" is a method of tuning unique to pianos. Compared with equal tuning, low notes are tuned slightly lower, while high notes are tuned slightly higher. At power on, this parameter is set to On.

2. Set the Stretch Tuning ON/OFF with the buttons to the left of the display.

ON: Like an acoustic piano, the low range is a little flat, and the upper range a little sharp.

OFF: The tuning of all notes is scientifically correct.

■ Temperament

"Temperament" refers to alternative ways of tuning an instrument. Some of the options provided here allow you to play Baroque and Classical pieces with the tuning of those periods.

3. Set the tuning method with the buttons to the right of the display.

You can choose from the following seven types of tuning.

EQUAL: The most common kind of tuning today. In this tuning, an octave is divided into twelve equal steps.

PYTHAGOREAN: Uses the Pythagorean scale. Devised by Pythagoras, the fourth and fifth are kept from becoming ambiguous in this tuning.

JUST (MAJOR): In this tuning, the third and fifth are kept from becoming too ambiguous. Choose this setting for pieces in a major key.

JUST (MINOR): With this tuning you can achieve the same effect as for Just Major, this time for pieces in a minor key.

MEAN TONE: A partial compromise of the Just (Major) tuning, to make transposition possible.

WERCKMEISTER: A combination of Mean Tone and Pythagorean tunings.

KIRNBERGER: An improvement of the Mean Tone and Just (Major) tunings, it is a tuning which allows greater freedom of transposition.

When performing with these alternative tunings, you need to specify the fundamental tone (the

root for a major key, the sixth for minor) to match the key of the song you are performing.

When you are accompanying another instrument, please tune to the fundamental tones of that instrument.

4. Set the Key note by pressing the key while holding down <Tuning>.

You need to do this for all temperaments except Equal.

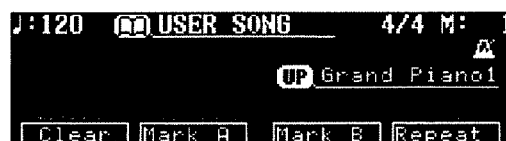
- The temperament you select here applies to all E-500 parts (the keyboard parts, the Arranger parts, and the Composer tracks/parts).

Marker function: repeatedly playing back the same section

The E-500 also provides a Marker and loop function for you to practice difficult solos or to repeat a given song part.

Markers are placed at the beginning of measures.

1. Press <Marker>.



You can place markers at two locations in a song. When you put a marker in a song, playback will start from the beginning of the measure where the A marker is put.

By way of example, let's place a Marker at the beginning of measure 5.

2. Go to the target measure by pressing the [FWD] and [BWD] buttons.
The measure number appears in the upper right of the screen. Select measure 5.
3. Press <Mark A>.
<Mark A> changes to "A:5."
4. Press the [PLAY] button.
Playback of the performance will begin at the beginning of measure 5.
5. Press <A:5>.

The E-500 will return to the beginning of the fifth measure, and begin playing back again.

You can press the <Mark A> button before, during, or after playback.

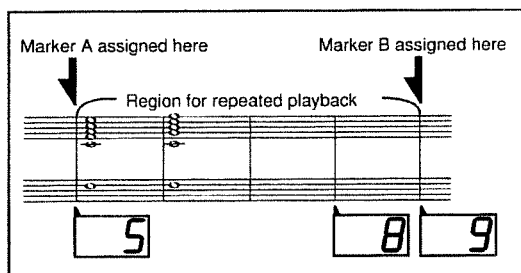
The E-500 memorizes the next downbeat. In other words, if you press <Mark A> on the fourth beat of measure 4, for example, the beginning of measure 5 will be marked. A more precise approach would be to stop playback, fast for-

ward or rewind to the desired measure and then press <Mark A>.

■ Repeated playback (Repeat)

Example: Repeating playback of measures 5- 8

6. See steps (2) and (3) above.
7. Go to the measure where you want the loop to end by pressing the [FWD] and [BWD] buttons.
The measure number appears in the upper right of the screen. Select measure 9.
8. Press <Mark B>.
Here is what you have just programmed:



9. Press <Repeat>.
The song will return to measure five, where Mark A is located.
10. Press the [PLAY] button.
Measures 5~8 will play back repeatedly.
 - If you forgot to program <Mark B>, the song will repeat between <Mark A> and the end of the song.
 - Likewise, if a song only has a <Mark B>, pressing <Repeat> will start a loop between the beginning of the song and <Mark B>.

■ Erasing Marks

Hold down <Clear> and press either <A: (the measure number)> or <B: (the measure number)> to erase a marker.

10.2. Organ screen functions

For information on using markers, see above.

Using the Arranger

You may remember that we told you that, by pressing the [START/STOP] or [INTRO/ENDING] button, you can start playback of the drum pattern of the selected Music or User Style. The Organ screen does, however, provide an Arranger function that allows you to use entire Music Styles (with bass and accompaniment lines). The split point can be set anywhere between the B2 and the B5.

1. Press <Arranger>.



2. Using the button to the side of the display, you can turn the Arranger function on and off.
At power on, this function will be set to Off.

Lower Tone on/off and split point

You can switch the Lower Tone on and off and set the split point anywhere between the B2 and the B5.

1. Press <Split>.



■ Turning the Lower Tone on and off

2. Use the buttons to the left of the display to switch the Lower Tone on or off.

■ Changing the Split point

3. Use the buttons to the right of the display to select the Split point.
Each time you press the button, the Split point will shift one key.
 - You can also set the split point by pressing the key where you want the keyboard to be split while holding down <Split>.

10.3. Basic screen functions

- See above for how to set the split point.
- See "Marker function: repeatedly playing back the same section" on page 61 for information on using markers.

Auto: changing the Arranger defaults

You may remember that selecting a Music Style means that the E-500 automatically loads its preset tempo, selects an Upper Tone that matches the mood of the Styles, and activates the Chord Intelligence function. Here is how to keep the E-500 from loading some or all of these settings:

1. Press <Auto>.



2. Select what you are going to change with the buttons to the left of the display.

■ One Touch Prg

Full Aut: By selecting a Music Style, you also recall its preset tempo, a suitable Upper Tone and a few other settings (see "Settings" on page 35).

Tone Lock: The E-500 no longer selects an Upper Tone when you choose another Music Style.

Tempo Lock: The E-500 no longer sets the preset tempo of the selected Music Style.

Tone, Tempo Lock: Selecting another Music Style no longer loads the preset tempo and Upper Tone.

OFF: In this mode, the E-500 loads none of the settings related to the Music Style you select (see "Settings" on page 35).

- Full Auto is switched on by default.

■ Chord Intelligence ON/OFF

3. Switch the Chord Intelligence function on/off with the buttons to the right of the display.

- Chord Intelligence is set to be switched on by default. For more detailed information about Chord Intelligence, please refer to "'Easy fingering – Chord Intelligence'" on page 42.

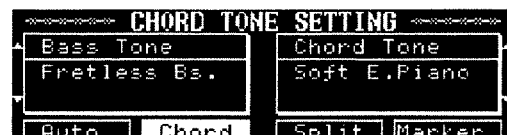
Chord Tone Setting

After stopping Style playback (or before starting the Arranger), you can play chords with your left hand that will be sounded the way you play

them (without the automatic accompaniment). The Tone being used for sounding the chords is appropriately called "Chord Tone." Along with the Chord Tone, the E-500 will also play a bass note with (you guessed it) the "Bass Tone".

Ordinarily these Tones are preset, but they can be changed through the following procedure.

1. Press <Chord>.



2. Select the Bass Tone using the buttons to the left of the display, and the Chord Tone with the buttons to the right of the display.

If you don't want the Bass Tone or Chord Tone to sound, select "OFF."

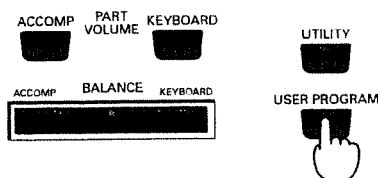
- Some Tones allow you to sustain the notes you play until you play other notes (Hold function), thus freeing up your left hand for other tasks between the changes.
- When the power is turned on, <Chord Tone> is set to "Soft E.Piano" and <Bass Tone> is set to "Fretless Bs".
- See also "Volume of the Rhythm, Bass, Accomp, and Chord/Bass Tones" on page 40.

11. User Programs, Pad buttons, pedals

11.1 User Program: registering panel settings

The E-500 is equipped with 32 User Program memories that allow you to store almost all settings (or registrations) you make on the front panel. So far, we have only discussed the easy part of changing the preset settings. Later on, you will discover that you can also carry out a lot of in-depth work. Those settings can also be saved to a User Program. (E-68, E-96, and G-800/RA-800 users refer to them as *Performance Memories*).

1. Make the settings that you want to register.
2. Press the [USER PROGRAM] button.



The display responds with:



3. While holding down <Write>, use the buttons to the side of the display to choose a User Program number. After a few seconds, the display returns to the previous page.
 - You cannot store settings to the <Manual> memory.
 - The E-500 comes with a number of User Programs you could use as starting points for your own settings. Feel free to overwrite them when you run out of internal User Programs. Otherwise save your User Programs to disk.
 - You can also name your User Programs (see below).

Loading a User Program

1. Press the [USER PROGRAM] button
The User Program screen (see above) is displayed.
2. Use the buttons to the side of the display to select a User Program memory.
 - Choosing <Manual> changes the panel settings to the ones in effect before the User Program was called up.
 - You can also decide when the settings relating to the Arranger are loaded. See "User Program Arranger Update" on page 70.

Naming (or renaming) a User Program

Here is how to name or rename a User Program:

1. On the User Program screen, hold down the [USER PROGRAM] button and select a User Program memory.



2. Use <◀> and <▶> below the display and <▲> and <▼> to the left of the display to enter the name.
See page 50 for a list of available characters.
3. Press <Execute>.

Saving User Programs to disk

You can store up to 32 User Programs, including Manual settings, on the E-500. These 32 User Programs make up one set, and up to 99 sets can be saved on a disk.

User Programs can only be saved on a disk that has been formatted by the E-500 or a KR-570. If you're using a new disk, first format it (see page 54), then carry out the following steps.

1. Set the Write Protect tab on the disk to the "Write" position and insert the disk into the disk drive.
2. Press the [USER PROGRAM] button.
The User Program screen is displayed.
3. Press <Disk...>.



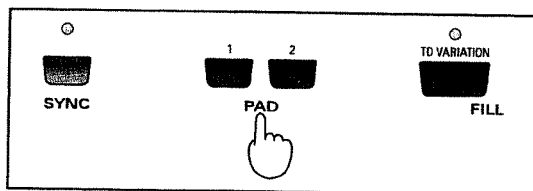
4. Use <▲> and <▼> to the right of the display to select a number.
You can choose any number between "1" and "99". Do note, however, that selecting a User Program number that already contains data means that the User Program Set (i.e. 32 precious User Programs) in question will be overwritten by your new set.
5. Use <◀> and <▶> below the display and <▲> and <▼> to the left of the display to enter a name.
See page 49 for a list of available characters.
6. Press <Save> at the bottom right of the display.
 - To cancel without saving the User Program Set, press the [EXIT] button.

Loading a User Program set from disk

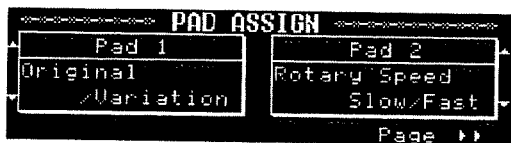
1. Insert the floppy disk that contains the desired User Program into the disk drive.
2. Press the [USER PROGRAM] button.
The User Program screen is displayed.
3. Press <Disk...>.
4. Use <▲> and <▼> on the right of the display to choose the User Program.
5. Press <Load> at the bottom right of the display.
 - Please bear in mind that loading a User Program set means that all 32 internal User Program memories will be overwritten. You may want to save them to disk first (see above).
 - To stop the operation, press the [EXIT] button.

11.2. Pad buttons: additional or frequently used functions

You can assign a wide variety of performance-related functions to the two PAD buttons on the panel. After a function has been assigned, it can be called up by pressing the corresponding PAD button.



1. On the Basic screen, press <Pad/Pedal>.



2. Use <▲> and <▼> next to the display to assign a function to "Pad 1" and "Pad 2."
- Press [EXIT] if you've changed your mind about assigning one of the following functions to a PAD button.

Here are the functions you can assign to the PAD buttons:

■ Leading Bass

This switches the Leading Bass function on or off. During normal Style Play, the root of the chord played is used as the bass note, but when the Leading Bass function is used, the lowest

note of the chord actually played is used as the bass note. This means that the bass note changes when an inverted chord is used.

- If you assign this function to a footswitch, the Leading Bass function is "On" whenever the footswitch is depressed.

■ Break

Break is a great function for Rock'n'Roll songs and ballads. Use it to halt the Arrangement either for the remainder of the current bar or for an entire bar (when pressed on the last beat of a bar). Usually, the melody or solo continues during such a silent (tacet) bar. Break allows you to achieve the breaks in "Great Balls Of Fire", for example.

■ Fill In To Variation.

This has the same function as the Fill In [TO VARIATION] button.

■ Fill In To Original.

This has the same effect as the Fill In [TO ORIGINAL] button.

■ Fill In

This inserts a Fill-in, but the accompaniment pattern thereafter does not change.

■ Original/Variation

This changes to Original or Variation without inserting a Fill-in.

■ Basic/Advanced

This has the same effect as pressing <Advnc <Basic> or <Advnc >Basic>.

■ Simple Intro/Ending

This function allows you to select the simple version of an Intro or Ending at the press of a button. You may remember (see page 38) that there is a more complicated way of achieving the same result.

■ Melody Intelligence

This has the same effect as the [MELODY INTELLIGENCE] button.

■ Arranger Intro/Ending

This has the same effect as the [INTRO/ENDING] button.

■ Arranger Start/Stop

This has the same effect as the [START/STOP] button.

■ Fade In/Out

This function allows you to fade in (whereby the volume gradually increases) when the Arranger is started, or to fade out (whereby the volume gradually decreases) at the end of your song.

■ Chorus ON/OFF

This switches the Chorus effect for the Whole or Upper Tones on or off.

■ Rotary Speed Fast/Slow

This changes the speed of the Rotary effect.

■ DSP ON/OFF

This switches the DSP effect on or off.

■ Glide

When the button assigned to this function is pressed, the pitch drops momentarily, then gradually rises to its original level. This is effective when used to play a Hawaiian guitar, and the like.

■ Composer Play/Stop

This has the same effect as the Composer [PLAY] and [STOP] buttons.

■ Metronome ON/OFF

This switches the metronome on or off.

■ Punch In/Out

When you select this function, you can activate and deactivate the recording process during playback. See "Recording method (Rec Mode)" on page 53 for details.

11.3. Pedal (footswitch) functions

You can also assign other functions to the optional footswitches connected to the SOFT and SOSTENUTO jacks.

1. On the Basic screen, press <Pad/Pdl>.
2. Press <Page>.
3. Use <▲> and <▼> to the side of the display to select the functions of the SOSTENUTO (Left) and the SOFT footswitches (Center).

In addition to the following functions, all functions listed under "Pad buttons: additional or frequently used functions" can be assigned to either footswitch.

■ Soft for Upper

The footswitch acts as Soft pedal (affecting the Upper Part or the Whole Part).

■ Sostenuto for Upper

The pedal acts as Sostenuto pedal (affecting the Upper Part or the Whole Part).

■ Damper for Lower

The footswitch acts as separate Damper pedal for the Lower part.

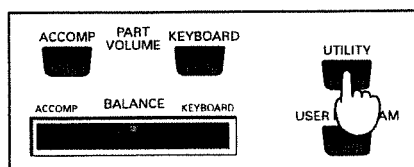
After a few seconds, the display returns to the previous screen.

- When you press the One Touch Program [PIANO] button, the footswitches once again assume their "official" functions (Soft and Sostenuto).

12. Utility Menu

12.1. Operating procedure

1. Press the [UTILITY] button.



The Utility Menu screen appears. You can now select the function you wish to set.

2. Use <◀◀PAGE> and <PAGE>>> to jump to another Utility page.
The Utility Menu is made up of 14 pages.
 3. Use the buttons to the side and below the display to make the settings for each of the functions.
To return to the settings in effect when the power was first turned on, simultaneously press <▲> and <▼>.
The display automatically returns to the original screen after a few seconds. You can also return to the original screen by pressing the [EXIT] button.
- If you want to cancel the operation, press the [EXIT] button before changing any settings.

12.2. Utility functions

Master Tune

Master Tune allows you to tune your E-500 to acoustic instruments that cannot be tuned. Like all electronic musical instruments, your E-500 is set to A4= 440Hz, which may be flat for certain acoustic instruments. Please note that the E-500 will revert to A4= 440Hz whenever you switch it on.

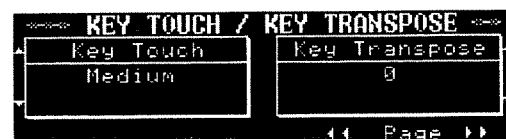
1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to set the standard pitch (415.3~466.2Hz).
- This setting affects all sounds, including songs played back from a disk.

Key Touch/Key Transpose

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page.



■ Key Touch (velocity sensitivity)

Except for the fact that there are five options here, this function does the same as "Key Touch (velocity sensitivity)" on page 60.

2. Use the buttons on the left of the display to set the Key Touch.

For "Light", "Medium", and "Heavy", see page 60.

Super Light : Playing fortissimo doesn't require much strength.

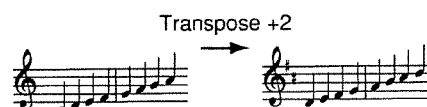
Super Heavy: This setting is probably only useful for practising purposes or for those who will never get used to a synthesizer (or organ) keyboard.

■ Transpose

If you are used to playing a song in a particular key, the Transpose function will allow you to keep playing in that key while sounding in another one. Doing so will allow you to accommodate the singer or musician you play with or to play to a Standard MIDI File backing that (for some inexplicable reason) was recorded in another key than the one you normally choose.

This function has the same effect as using the TRANSPOSE buttons, only here you see the value you set.

3. Use the buttons to the right of the display to select the amount of transposition.
Your setting (-12~0~12) appears on the display. The key changes in semitone steps.
Ex: When you select "2".

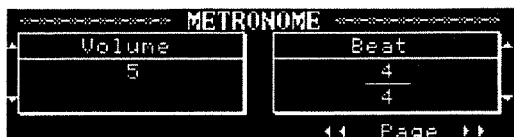


This is what you play,... ...this is what you hear.

- Key Transpose affects the entire keyboard and thus also the chords sent to the Arranger.
- You can also set the desired transposition interval with the TRANSPOSE [+/-] buttons. Press these buttons simultaneously to return to normal pitch (no transposition).

Metronome Volume and Beat

1. On the Utility Menu screen, press <<PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to set the desired values.

For Volume, a higher value produces a louder sound.

- Whenever you press a MUSIC STYLE button, the Beat value (time signature) is automatically set to match the time signature of the Music Style.
- Beat cannot be changed during Style playback or when using the Composer.

Selecting a different Reverb and/or Chorus effect

As stated earlier, the E-500 provides several types of Reverb and Chorus effects. Choose the one that matches the mood of the song you wish to play.

1. On the Utility Menu screen, press <<PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left of the display to choose the Reverb type, and the buttons to the right to choose the Chorus type.

■ Reverb Types

Room 1: Reverberation of a conference room

Room 2: Reverberation of a small live-stage house

Room 3: Reverberation with a feeling of spaciousness

Hall 1: Reverberation of a large concert hall

Hall 2: Reverberation of a small concert hall

Plate: Bright, metallic reverberations

Delay: A sound that is repeated like an echo

Panning Delay: A delay sound that moves back and forth between the left and right speakers

■ Chorus Types

Chorus 1: A light chorus with slow undulations

Chorus 2: A light chorus with rapid undulations

Chorus 3: A strong chorus with slow undulations

Chorus 4: A deep chorus with rapid undulations

Feedback Cho.: A soft sound with an effect like a flanger

Flanger: An effect that reminds you of a jet taking off and landing (ideal for guitar sounds).

Short Delay: A delay with a short delay time

Short Dly (FB): A short delay with many repetitions

- The type you select here is applied to all Tones (including the Arranger and the Composer).

Expansion Tone

See "Selecting Expansion Tones" on page 28.

LCD Contrast

You can adjust the contrast of the display within a ten-step range.

1. On the Utility Menu screen, press <<PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to adjust the contrast.

Lyric: switching off the display of lyrics

When using the E-500 to play music data containing Lyrics, the lyrics are shown on the display. You can switch off this display of the lyrics.

1. On the Utility Menu screen, press <<PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to select On or Off.

Now press any button on the front panel to hide the lyrics that are already being displayed. Press [PLAY] if you want to pursue your Karaoke performance.

Pitch Bend Range

This sets the maximum amount of change (range) that control how much the pitch changes when using the BENDER/MODULATION lever.

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to set the value.

The value can be set to any number from 0 to 12 (in semitone steps, for a maximum of one octave).

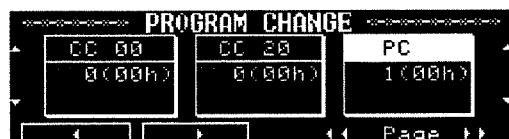
Program Change (and Bank Select)

“Program changes” are MIDI messages that tell the receiving instrument to select another sound (or Tone) and also contain information about which Tone to select. There may be situations where you would like to double the Upper part melody with a sound of an external instrument that is not automatically selected.

Enter the Program Change function. It allows you to transmit sound select messages without choosing Tones on the E-500 itself.

(*) Let's agree to use the term *sound select message* to describe MIDI message clusters consisting of one or two bank select messages and a program change message.

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



2. Use the <◀> and <▶> buttons at the lower left of the display to select the message type.
3. Use <▲> and <▼> to the left and right of the display to set the value.

Display	MIDI message	Value
CC 00	Bank Select MSB	0~127
CC 20	Bank Select LSB	0~127
PC	Program Change	1~128

Please note that each press of a <▲> or <▼> button will cause the E-500 to transmit the value you set. Always set the numbers in the same order as

they appear on the display: start with CC00, then set CC20, and finally set a PC value.

- Most instruments do not understand CC20 messages, so feel free to skip that one.
- Sound select messages transmitted on the Program Change page are not executed by the E-500.

MIDI: TX MIDI Ch./Local Control

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



■ TX MIDI Channel

TX MIDI Ch refers to the MIDI channel used for transmitting messages from the E-500 to external instruments (TX is short for transmit). If the external instrument is set to receive on (RX) MIDI channel 3, select “3” here. Otherwise, the external instrument will neither play nor select sounds, etc.

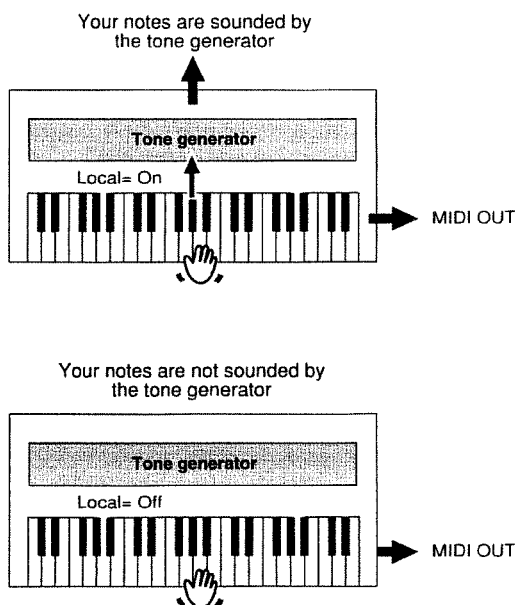
2. Use the buttons to the left of the display to choose the MIDI transmit channel.

That channel number (1~16) appears on the display.

- MIDI messages sent from the external MIDI instrument to the E-500 are received on all channels. However, all keyboard information (of the Upper, Layer, Lower, Chord, and Bass Tones) will be transmitted on one channel.
- Composer and Music Style data are not transmitted.

■ Local Control

Local Control is a switch between the keyboard of your E-500 and its tone generator. This switch is usually set to On so that you hear the notes you play. When working with an external sequencer, you may have to select Off, though, to avoid that every note is sounded twice (once by yourself and again by the sequencer).



Local Control has no effect on what is being transmitted to the MIDI OUT connector.

- After setting Local Control to Off, do not forget to set the sequencer's Soft Thru parameter to On. That way, the messages can be transmitted from the sequencer's MIDI OUT connector to the E-500's MIDI IN connector (use a MIDI cable to establish this connection).

3. Use the buttons on the right of the display to switch Local Control on or off.

User Program Arranger Update

You can also set when the Arranger's settings will change after you have selected another User Program (see page 64).

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



2. Use the buttons to the left and right of the display to select an option.
 - Instant:** Arranger-related settings are called up as soon as the User Program is selected.
 - Delayed:** Arranger-related settings are only recalled if you hold down the soft button assigned to the desired User Program.

- All other programmable settings will be selected immediately.

Memory Backup

Some settings return to their initial values when the power is switched off. The Memory Backup function makes it possible to save such settings so that they don't revert to their initial values.

The following settings can be saved:

- Display contrast
- Basic screen and Demo screen language
- Stretch Tuning, Temperament
- Octave Shift
- Types and depth of DSP effects for each Tone
- Chorus effect on/off status for each Tone

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



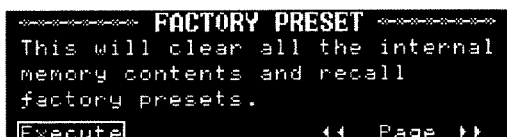
2. Press <Execute>.
3. Press <OK>.
 - To stop the operation, press <Cancel>.
 - Do not turn the instrument off until the display shows "Backup complete".

Factory Preset (initialization)

This returns all settings stored in the E-500 to their initial values when shipped from the factory.

- The User Programs also return to their initial settings, so be sure to save them to disk first.

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:



2. Press <Execute>.

3. Press <OK>.

All settings are returned to their initial values.

- To cancel the operation without initializing the E-500, press <Cancel>.
- Do not turn the instrument off until the display shows "Reset complete".

Link to 16TRK Sequencer

Link is a function you may need when working with the 16-track Sequencer. It allows you to establish a connection between the selected Composer track (in 16-track Sequencer mode) and the keyboard, so that the keyboard triggers the same Tone as the one assigned to the track.

Normally, such as when taking advantage of the Minus-One facility, it is wiser to set Link to off. Doing so means that you can select whichever Tone you like for the part you play. If Link is set to On, the keyboard uses the Tone assigned to the track you select, thereby overruling your own selection.

1. On the Utility Menu screen, press <◀◀PAGE> or <PAGE>>> to select the following display page:

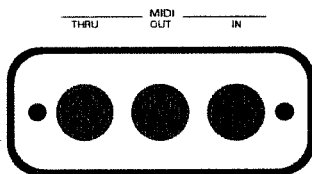


2. Use the buttons to the left and right of the display to switch Link on or off.

13. Connecting MIDI instruments

MIDI is short for Musical Instrument Digital Interface. The word refers to many things, the most obvious being a connector type that is used by musical instruments and effects devices to exchange messages relating to the act of making music. Every time you play on the E-500's keyboard, your instrument will send MIDI data to its MIDI OUT port. If you connect that port to the MIDI IN port of another instrument, that instrument may play the same notes as one of the E-500's parts.

MIDI is a language that translates every action relating to music into binary digits that can be transferred via a MIDI cable. It is a universal standard, which means that musical data can be sent to and received by instruments of different types and manufacturers. Furthermore, MIDI allows you to connect your E-500 to a computer or hardware sequencer.

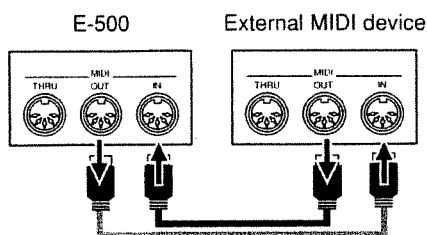


MIDI messages are transmitted and received using three connectors and special MIDI cables:

- **MIDI IN:** This connector receives messages from other MIDI devices.
- **MIDI OUT:** This connector transmits MIDI messages generated on your E-500
- **MIDI THRU:** This connector "echoes back" all MIDI messages received via MIDI IN

Explaining MIDI in great detail lies beyond the scope of this manual. There is a booklet called MIDI Guide available from your Roland dealer that explains the ins and outs of MIDI.

Here is how to connect the E-500 to an external sound module, sequencer, etc. When working with an external sequencer, be sure to establish both connections and to set Local Control (see page 69) to Off.



- *You don't always need two MIDI cables. Just look at the arrows in the above illustration for deciding which ports you need to connect the cables to.*

■ Caution

- The E-500 only transmits "realtime" MIDI data to its MIDI OUT port. Thus, only the notes you play on the keyboard as well as the Pitch Bend, Modulation, and pedal data are transmitted (but not the Arranger or Composer data). If you want to use the data of a Music Style (notes and sound select messages) on your computer, you can record them (see "Recording" on page 45), save them to disk as Standard MIDI File data (see "Saving songs in SMF format (As SMF)" on page 50) and then load them into your sequencer (software).
- The E-500 does not receive SysEx messages when the Composer is being used.

14. Appendix

14.1. Troubleshooting

■ No sound is played

- The [VOLUME] knob is turned down too low.
- Headphones are plugged in.
- The [BALANCE] knob is set to "Accomp". Turn it towards "Keyboard."
- The Part Volume button is set to "0".

■ No sound is produced when the keyboard is played.

- With some performance data, the keyboard may be unresponsive after the data is played back. If this is the case, press the [SONG] button and choose <U: User Song> at the upper left of the Song Select screen. Alternatively, delete the data you've recorded.
- Local Control is set to Off. When Local Control is set to Off, no sound is produced when the keyboard is played. Set Local Control to On.

■ Can't choose a Tone or Style.

- The Demo screen is displayed. Press the [DEMO] button, then choose the Tone or Style.

■ Notes are cut off.

- The E-500 can play a maximum of 64 notes simultaneously. The number of sounds may exceed 64 at times such as when playing while listening to a song on disk, or when you make extensive use of the Damper pedal during a performance.

■ The song on disk is not played back immediately.

- SMF music data comes in two types: format 0 and format 1. In the case of format 1 data, some time is required before playback actually starts. Refer to the booklet that came with the SMF music data you're using for the format type.

■ The display says "PU" when a song on disk is played back.

- When a song starts in the middle of a measure, the message "PU" (pickup) appears on the display. After that, the measure number is displayed as usual.

■ The [FWD] button doesn't fast-forward and the [BWD] button doesn't rewind.

- You can't fast-forward or rewind while music data is being read. That is why the measure number is shown in reverse video).

■ The Tones change

- If you select another Music Style during playback, the Upper Tone and tempo also automatically change to appropriate settings. See "Auto: changing the Arranger defaults" on page 63 for how to change that.
- If a song that contains data on the Whole track is used for Minus-One Play, the Upper and Lower Parts may change to the same Tone as the recorded part.
- An Expansion Tone is only temporarily selected. If you change the performance mode (from Whole to Split, for example), the sound returns to the normal Tone you selected last.

■ The way a Tone is played changes.

- You can only use one DSP effect type at a time. When recording on multiple tracks, or when playing along with a song, you may encounter times when you won't be able to add effects.

■ I can't play melodies on the entire keyboard.

- When using the Arranger (One Touch Program [ARRANGER] indicator lights), the [WHOLE] indicator may light but you can only play melodies in the right half of the keyboard. You could, however, select the Piano Style Arranger mode to extend the Arranger's chord recognition to the entire keyboard (see page 35). Doing so will also assign the Upper Tone to the entire keyboard. To activate the Whole mode, press the One Touch Program [PIANO] button.

■ The Chord Intelligence function doesn't work

- You cannot use this function in Piano Style Arranger mode. Chord recognition only works when three or more keys are pressed at the same time.
- The Chord Intelligence function is off (see page 42).

■ The optional footswitches don't work (as expected).

- You probably forgot to connect them or did not connect them securely.

- The function of the SOSTENUTO and SOFT footswitches changes automatically when you playback a Style or select the Split mode. Furthermore, you can assign other functions to these footswitches (see "Pedal (footswitch) functions" on page 66).
- In One Touch Program [PIANO] mode, these footswitches can only be used as Soft and Sostenuto pedals (their "official" function).

■ The E-500 won't record.

- There is a disk in the disk drive, or you listened to a song before pressing the [REC] button. If you want to record your own performance in such cases, press the [SONG] button to display the Song Select screen. Choose <U: User Song> at the upper left of the display. Then press the [REC] button. The [PLAY] indicator flashes to signal that you can start recording.
- You're trying to record to a track that already contains data. To redo a recording, press the [REC] button, then press the Track button of the track you wish to redo. The indicators of the track button you pressed and the [PLAY] button flash to signal that you can start recording.
- You've selected Punch In/Out (see page 54). In that case, recording starts when the pedal is depressed (or the appropriate PAD button is pressed), and stops when the pedal (or PAD button) is pressed again.

■ Some parts don't sound when listening to a song on disk.

- The indicator of the Composer Track button in question is off. Press the Track buttons of all tracks you want to hear (indicators must light).

■ The pitch is off.

- You have transposed the keyboard. Set the value back to "0" (see page 61).
- The tuning is not correct. See "Tuning" on page 61 and "Master Tune" on page 67.

■ I Can't select Layer or Split mode

- The 16-track Sequencer is in use. In this mode, the entire keyboard is assigned to the selected track. That is why you can't layer or split two Tones.

14.2. Error messages

E. 00

To prevent copyright infringement, this song cannot be saved to a disk other than the original disk.

→ Save the data to the original disk.

E. 01

This type of music data cannot be saved to disk.

→ This song is for playback only.

E. 02

The Write Protect tab on the disk is set to PROTECT.

→ Move the tab to the "Write" position.

E. 03

A master disk cannot be formatted or used to save data.

→ Save the data to a disk formatted on the E-500 (or a KR-570).

E. 04

Cannot save to this type of disk.

→ Save the following three types of data to dedicated disks. Alternatively, save the data to a newly formatted disk on the E-500.

- Songs recorded on the E-500
- Songs converted to SMF data using the E-500
- User Styles created on the E-500 or KR-570

E. 05

This file cannot be overwritten.

→ Choose a different number to save the data. Alternatively, save the data to a different disk formatted with the E-500.

E. 10

No disk has been inserted into the disk drive.

→ Insert a disk into the disk drive.

E. 11

There is not enough space on the disk to save the data.

→ Use a different disk formatted with the E-500.

E. 12

Data cannot be saved because the disk is not formatted.

→ Use a disk formatted with the E-500. See "Formatting disks" on page 54.

E. 13

The disk was removed while saving or formatting.

→ Repeat the procedure. Do not remove the disk until a message indicating that the operation has been completed is displayed.

- E. 14**
A corrupted sector was found on the disk.
→ Use another disk formatted with the E-500.
- E. 15**
You can't save data to this disk.
→ Use a disk formatted with the E-500.
- E. 20**
This type of disk cannot be read.
→ Use Roland SMF disks or music data that supports Roland Piano Digital. If the disk is not formatted, format it with the E-500 (see page 54).
- E. 21**
This type of music data cannot be read.
→ Use Roland SMF disks or music data that supports Roland Piano Digital. In addition, only E-500 or KR-570 User Programs can be used.
- E. 22**
The disk was removed while reading.
→ Insert the disk and repeat the procedure. Do not remove the disk while recording or during standby for recording. As a rule, never remove the disk while indicator of the disk drive lights.
- E. 23**
A corrupted sector was found on the disk.
→ This song cannot be played back.
- E. 24**
Disk access time is not fast enough for playback.
→ Press the [STOP] button once. Press the [RESET] button, then press the [PLAY] button again.
- E. 25**
This music data cannot be played.
→ The music data uses performance information that is unsupported by the E-500. This song cannot be used.
- E. 30**
Playback is impossible because the size of the music data is too large.
→ You cannot record, fast-forward, rewind, or save this music data.
- E. 31**
Recording is impossible because the size of the music data is too large.
→ You cannot record, fast-forward, rewind, or save this music data. The file is playback-only.
- E. 32**
Recording was stopped.
→ The amount of performance information is too large, and further recording is not possible.
- E. 34**
Recording and playback are impossible because the size of the music data is too large.
→ This music data cannot be used.
- E. 35**
The Style data is too large, so it cannot be read or recorded.
→ Delete the song in the E-500's internal memory (see page 49), or save it to disk (see page 49) and then erase it.
- E. 36**
The operation you selected would result in a User Style that is too complex (contains too much data) for the E-500's User Style memory.
OR:
The User Style you are trying to load from disk is too large, and cannot be loaded.
→ Try to use less complex phrases or select a different Style.
- E. 40**
Too much MIDI data was sent from the external MIDI instrument at the same time, and the E-500 could not process the data.
→ Reduce the amount of MIDI data being sent to the E-500.
- E. 41**
A problem such as a loose MIDI cable occurred.
→ Check the connection of your MIDI cables.
- E. 42**
Too much data was sent to the Composer, and recording could not be performed.
→ Slow down the tempo and record the data again.
- E. 51**
You could not write the panel settings to a User Program.
→ Try the operation again. If you get the same message again, please contact qualified service personnel.

14.3. DSP effects

1. Overdrive:..... Distorts the sound a little
2. Distortion:..... Distorts the sound a lot
3. Phaser: Gives a swelling sound
4. Enhancer: Makes the sound brighter and seemingly louder
5. Auto Wah:..... Changes the timbre in cycles
6. Compressor:..... Limits the dynamic range by reducing higher volumes
7. Gate Reverb:..... A reverb that ends abruptly
8. Rotary: Modulation effect of a rotating speaker
9. Hexa Chorus: Lends thickness and breadth to the sound
10. Tremolo Chorus:..... Thick tremolo effect
11. Stereo Chorus: A stereo chorus
12. Stereo Flanger:..... Adds metallic reverberations to the sound
13. Step Flanger:..... A flanger with stepwise changes in pitch
14. Stereo Delay: Adds a delay to the stereo sound
15. Modulation Delay:..... A delay that adds undulations to the delayed sound
16. Triple Tap Delay: A three-way delay
17. Quadruple Tap Delay:..... A four-way delay
18. 2-Voice Pitch Shifter: Adds two pitch-shifted notes to the original sound
19. Feedback Pitch Shifter: Adds a single pitch-shifted note the original sound
20. Overdrive → Chorus: Overdrive that is processed by a chorus
21. Overdrive → Flanger: Overdrive that is processed by a flanger
22. Overdrive → Delay:..... Overdrive that is processed by a delay
23. Distortion → Chorus: Distortion that is processed by a chorus
24. Distortion → Flanger: Distortion that is processed by a flanger
25. Distortion → Delay:..... Distortion that is processed by a delay
26. Enhancer → Chorus: Enhancer that is processed by a chorus
27. Enhancer → Flanger: Enhancer that is processed by flanger
28. Enhancer → Delay: Enhancer that is processed by a delay
29. Chorus → Delay: Chorus that is processed by a delay
30. Flanger → Delay:..... Flanger that is processed by a delay
31. Chorus → Flanger:..... Chorus that is processed by a flanger.
32. Sympathetic Resonance: A resonance effect that is produced every time you press the footswitch connected to the DAMPER jack.

14.4. Demo songs

Song Number	Composer	
Piano 1	Scott Tibbs	©1996, Buoy Music
Piano 2	Scott Wilkie	©1996, Scott Wilkie for BeachHouse
Piano 3	Roland	©1996 Roland Corporation
Piano 4	J. S. Bach	
Organ 1	J. S. Bach	
Organ 2	Music Brains	©1996 Roland Corporation
Organ 3	Jonas Nordwall	©1996 Rodgers Instrument Corporation
Organ 4	Roland	©1996 Roland Corporation

Song Number	Composer	
Strings 1	Music Brains	©1996 Roland Corporation
Strings 2	-----	Spanish Traditional
Strings 3	W. A. Mozart	
Strings 4	F. Chopin	
Strings 5	Music Brains	©1996 Roland Corporation
Ensemble 1	Stewart Cary and Joe Millward	©1996 Roland Corporation U. S.
Ensemble 2	E. Grieg	

Profiles of the composers

■ Jonas Nordwall

A native of Portland, Mr. Nordwall received his Bachelor of Music Degree in 1970 from the University of Portland studying with Arthur Hitchcock. Additional study was done with Frederick Geoghegan, the noted English/Canadian organist. As a teenager, Jonas had the privilege to study with Richard Ellsasser, one of the greatest virtuoso organists of this century.

Besides serving as Director of Music for the First United Methodist Church in Portland, Oregon and as the Organist for the Oregon Symphony Orchestra.

He has been a featured recitalist for national conventions of the American Theatre Organ Society and was Organist of the year for 1987.

■ Music Brains

This is a music creation company established on April 3rd 1992 in Tokyo where it has been mainly working. We make CD's, video BGM, CM, animation music, Karaoke, etc. in our own recording studio. Also, we develop electronic musical instruments, send players, publish manuals, etc. Regarding Roland SMF music data, we have created various titles with the theme of searching reality in music, and have been highly estimated. Concerning this demonstration data, Yuuki Katoh has composed the gut guitar and Rock guitar data and Kenichiroh Shinzawa has composed the Organ demo under the direction of Takayuki Nagatani, our chief director.

■ Scott Tibbs

Scott Tibbs has performed and conducted for several orchestral groups, including the Atlanta Symphony Orchestra, throughout the United States, Canada, Latin America, and Japan. His diverse compositional output ranges from numerous film, theater and television projects to

the symphonic concert stage. For the past four years, he has been teaching music composition and theory at UCLA where he has received a Ph.D. degree in composition. He has performed with well-known artists Dizzy Gillespie, Bill Cosby, Jerry Sienfeld, and Bobby Shew, amongst numerous others.

■ Scott Wilkie

Scott Wilkie is a keyboardist and composer originally from Detroit, Michigan. His work as a studio musician and sound designer can be heard on many projects.

He has performed live with various artists, including Ronnie Foster, Earl Klugh, Jeff Baxter, David Goldblatt, Ricky Lawson, Mike Miller and others. In addition, he has worked as a synth programmer, most recently for Disney's Broadway production of Beauty and the Beast.

For Roland, Scott appears frequently throughout the United States, Asia, Europe and South America as a clinician and product demonstrator.

Now living in Los Angeles, he performs with his own group and is involved as a musician and producer on various projects.

■ Stewart Cary and Joe Millward

Stewart Cary and Joe Millward have been involved in musical performance and production over the last 20 years. Their company, The Works Music Productions, has been producing MIDI files for the last 10 years and was one of the first companies to offer MIDI files to the public. Mr. Cary and Mr. Millward are member of the Roland style development team and have been involved in the composition of numerous product demonstration songs.

14.5. Specifications

- **Keyboard**
61 keys (synthesizer-action mechanism)
- **Keyboard modes**
Whole, Split, Layer, Split Arranger, Piano Style Arranger, Manual Drum/SFX
- **Velocity sensitivity**
Super Light, Light, Medium, Heavy, Super Heavy
- **Maximum polyphony**
64 voices
- **Tones**
8 Groups, 124 Variations
(Tone Expansion Mode: 270 variations)
- **Music Styles**
Internal: 111 Styles
Disk: 32 Styles
 - *Expandable using (MSA) Music Style disks.*
- **Manual Drum / SFX Sets**
Drum Set: 8/SFX Set: 1
- **Programmable Music Styles**
Yes
- **Effects**
Reverb (8 types), Chorus (8 types), DSP (32 types)
- **Melody Intelligence**
18 types
- **User Programs**
Internal: 32 memories
Disk: Max. 99 sets
- **Composer**
Tracks: 16 (Easy Mode: 5 tracks)
Song: 1
Note Storage: $\pm 30,000$ notes
Tempo: $\text{♩} = 20 \sim 250$
Resolution: 120 ticks per quarter note
Recording methods: Realtime, Step (in Chord Sequencer Mode)
Playback: Standard MIDI File (Format 0/1), KR Songs
Save: Standard MIDI File (Format 0), KR Songs
Edit: Setup, Copy, Quantize, Erase, Delete, Insert, Transpose, Track exchange, Track Copy
- **Disk drive/data storage**
3.5 inch micro floppy disk drive
- Disk Format: 720K bytes (2DD), 1.44M bytes (2HD)
Songs: Max. 99
Note Storage: $\pm 120,000$ notes (2DD), $\pm 240,000$ notes (2HD)
- **Lyrics**
Yes
- **Languages**
4 languages (English, German, French, Japanese)
- **Display**
240 x 64 dots, graphic LCD with CFL backlighting
- **Rated Output Power**
10W x 2
- **Power Supply**
AC 117V, AC 230V or AC 240V
- **Speakers**
Two-way stereo system, in Bass Reflex boxes (10 cm x2 / 3 cm x2)
- **Dimensions**
1150 (W) x 410 (D) x 140(H) mm.
- **Power consumption**
62W (230V)
- **Weight**
14kg
- **Accessories**
Owner's Manual
Music Style Disk
Metal music stand
Power Cord
- **Options**
MSA Music Style Disks
SMF Music Data
Headphones (RH-20/80/120)
LVC-1 Lyrics to Video Converter
KS-12 Keyboard Stand
DP-2/DP-6, Boss FS-5U Pedal Switch
EV-5 Expression Pedal
PK-5 Dynamic MIDI Pedal.
- *In the interest of product improvement, the specifications and/or appearance of this instrument are subject to change without prior notice.*

Tones, Drum Sets, Music Styles

Normal Tones

Piano

Grand Piano 1
Grand Piano 2
Upright Piano
Rock Piano
Honky-tonk 1
Honky-tonk 2
MIDI Piano 1
MIDI Piano 2

E.Piano

E.Piano 1
Soft E.Piano
E.Piano 2
Hard E.Piano
60's E.Piano
Clav.
Harpsichord 1
Harpsichord 2

Vibes

Vibraphone
Celesta
Marimba
Xylophone
Glockenspiel
Music Box
Tubular-bell
Santur
Steel Drums
Kalimba
Barafon
Vibra Bells

Organ

Jazz Organ 1
Jazz Organ 2
Full Organ 1
Full Organ 2
Lower Organ 1
Lower Organ 2
Church Organ
Organ Flute
Theater Org.
Trem.Flute
Rock Organ 1
Rock Organ 2
Jazz Organ 3
Jazz Organ 4
Full Organ 3

Full Organ 4
Pop Organ
VS Orgn
Accordion
Harmonica

Guitar

Nylon Guitar
Gut Guitar
Steel Guitar
12str Guitar
Mandolin
Banjo
Hawaiian Gt.
Muted Gt.
JC E.Guitar
Jazz Guitar
Overdrive Gt.
Distortion Gt.
Power Guitar
Rock Rhythm
Shamisen
Koto

Strings

Slow Strings
Strings
Violin
Cello
Choir
Choir Oohs
Pop Voice
Syn Vox
Harp
Orchestra
Syn.Strings 1
Warm Pad

Sax

Blow Sax
Soprano Sax
Alto Sax
Oboe
Bassoon
Clarinet
Flute
Blow Pipe
Trumpet
Muted Trumpet
Trombone

Fr.Horn Solo
Brass1
French Horn
Synth Brass 1
Synth Brass 2

Fantasia

Fantasia
Brightness
Harpvox
Polysynth
CC Solo
Square Wave
Saw Wave
Saw
Doctor Solo
Syn.Calliope
Charang
Bass & Lead
Pan Flute
Shakuhachi
Whistle
Ocarina
Metal Pad
Sweep Pad
Soundtrack
Atmosphere
Crystal
Sitar
Orchestra Hit
Pizzicato Str.
Acoustic Bs.
A.Bass+Cymb
Fingered Bs.
Picked Bass
Fretless Bs.
Slap Bass 1
Organ Bass
Synth Bass 101

Expansion Tones

No.	Tone Name	CC 0	CC 32	PC#	No.	Tone Name	CC 0	CC 32	PC#	No.	Tone Name	CC 0	CC 32	PC#
* 001	Grand Piano1	08	64	001	* 049	Jazz Organ 4	00	65	018	097	Clean Gt.	00	00	028
* 002	Grand Piano2	08	64	002	* 050	Full Organ 1	00	65	017	098	Chorus Gt.	08	00	028
* 003	UprightPiano	16	64	001	* 051	Full Organ 2	08	65	017	* 099	Muted Gt.	00	00	029
* 004	MIDI Piano1	00	65	001	* 052	Full Organ 3	16	65	017	<u>100</u>	<u>Muted Dis.Gt</u>	<u>00</u>	<u>64</u>	<u>029</u>
* 005	MIDI Piano2	00	65	002	* 053	Full Organ 4	32	65	017	101	Funk Gt.	08	00	029
006	Piano 1	00	00	001	* 054	Lower Organ1	00	66	017	102	Funk Gt.2	16	00	029
007	Piano 2	00	00	002	* 055	Lower Organ2	08	66	017	* 103	Overdrive Gt	00	00	030
008	Piano 3	00	00	003	056	Organ 1	00	00	017	* 104	DistortionGt	00	64	031
009	EG+Rhodes 1	00	65	003	057	Organ 2	00	00	018	105	GS Dist.Gt.	00	00	031
<u>010</u>	<u>EG+Rhodes 2</u>	<u>00</u>	<u>66</u>	<u>003</u>	* 058	Pop Organ	18	00	017	106	Dazed Guitar	00	65	031
* 011	Rock Piano	08	64	003	* 059	VS Organ	32	64	017	* 107	Rock Rhythm	08	66	031
* 012	Honky-tonk 1	08	64	004	<u>060</u>	<u>Metalic Org.</u>	<u>32</u>	<u>66</u>	<u>017</u>	108	Rock Rhythm2	00	66	031
* 013	Honky-tonk 2	08	00	004	061	Detuned Or.1	08	00	017	109	Feedback Gt.	08	00	031
* 014	E.Piano 1	16	64	005	062	Detuned Or.2	08	00	018	<u>110</u>	<u>Feedback Gt2</u>	<u>09</u>	<u>02</u>	<u>031</u>
* 015	E.Piano 2	16	64	006	* 063	Rock Organ 1	00	64	019	* 111	Power Guitar	08	65	031
016	E.Piano 3	00	65	006	* 064	Rock Organ 2	00	00	019	112	Power Gt.2	08	64	031
017	Hard Rhodes	00	65	005	065	Rotary Org.S	00	65	019	113	5th Dist.	18	02	031
018	Detuned EP 1	08	00	005	066	Rotary Org.F	00	66	019	114	Gt.Harmonics	00	00	032
019	Detuned EP 2	08	00	006	* 067	Organ Flute	00	64	020	* 115	Acoustic Bs.	00	64	033
* 020	Soft E.Piano	08	64	005	* 068	Church Organ	08	65	020	* 116	A.Bass+Cymb	00	65	033
021	FM+SA EP	16	02	005	069	Digi Church	00	64	021	117	GS Ac.Bass	00	00	033
* 022	60's E.Piano	24	00	005	* 070	Theater Org.	16	64	020	* 118	Fingered Bs.	00	64	034
* 023	Hard E.Piano	00	64	006	* 071	Trem.Flute	08	64	020	119	GS Fing.Bass	00	00	034
024	St.FM EP	08	64	006	072	Pipe Org. Bs	32	65	018	* 120	<u>Picked Bass</u>	<u>00</u>	<u>64</u>	<u>035</u>
025	Hard FM EP	08	66	006	* 073	Organ Bass	40	02	017	121	GS Picked Bs	00	00	035
026	E.Piano 1	00	00	005	* 074	Accordion	00	64	022	122	Mute PickBs.	00	65	035
027	E.Piano 1v	16	00	005	075	Accordion Fr	00	00	022	* 123	Fretless Bs.	00	00	036
028	GS E.Piano2	00	00	006	076	Accordion It	08	00	022	124	Mr.Smooth	05	02	036
029	E.Piano 2v	16	00	006	* 077	Harmonica	00	64	023	* 125	Slap Bass 1	00	00	037
* 030	Harpischord1	00	64	007	078	GS Harmonica	00	00	023	126	Slap Bass 2	00	00	038
* 031	Harpischord2	08	64	007	079	Bandoneon	00	00	024	127	Synth Bass 1	00	00	039
032	Harpischord	00	00	007	* 080	<u>Nylon Guitar</u>	<u>00</u>	<u>64</u>	<u>025</u>	128	Synth Bass 2	00	00	040
033	Coupled Hps.	08	00	007	* 081	Gut Guitar	00	65	025	129	Synth Bass 3	08	00	039
034	Harpsi.o	24	00	007	082	GS Nylon Gt.	00	00	025	<u>130</u>	<u>Synth Bass 4</u>	<u>08</u>	<u>00</u>	<u>040</u>
* 035	Clav.	00	00	008	083	Ukulele	08	00	025	* 131	SynthBass101	01	00	039
036	Analog Clav.	00	64	008	084	Nylon Gt.o	16	00	025	132	Reso SH Bass	16	02	039
* 037	Celesta	00	00	009	* 085	Steel Guitar	00	64	026	133	SH101 Bass	16	64	040
* 038	Glockenspiel	00	00	010	086	Steel-str.Gt	00	00	026	* 134	Violin	00	64	041
* 039	Music Box	00	00	011	* 087	12str Guitar	08	64	026	135	GS Violin	00	00	041
* 040	Vibraphone	00	64	012	088	12-str.Gt	08	00	026	136	Slow Violin	08	00	041
* 041	Marimba	08	00	013	089	Nylon+Steel	08	65	026	137	Viola	00	00	042
* 042	Barafon	08	64	013	* 090	<u>Mandolin</u>	<u>16</u>	<u>64</u>	<u>026</u>	* 138	Cello	00	64	043
* 043	Xylophone	00	00	014	091	GS Mandolin	16	00	026	139	GS Cello	00	00	043
* 044	Tubular-bell	00	00	015	* 092	Jazz Guitar	00	00	027	<u>140</u>	<u>Contrabass</u>	<u>00</u>	<u>00</u>	<u>044</u>
* 045	Santur	00	64	016	093	Mellow Gt.	01	02	027	141	Tremolo Str	00	00	045
* 046	Jazz Organ 1	32	00	018	* 094	Hawaiian Gt.	08	64	027	* 142	PizzicatoStr	00	00	046
* 047	Jazz Organ 2	32	64	018	095	GS Hawaiian	08	00	027	* 143	Harp	00	64	047
* 048	Jazz Organ 3	08	64	018	* 096	JC E.Guitar	00	64	028	144	GS Harp	00	00	047

- *: indicates a Tone overlap with the Normal Tone
- CC0: value of control change number 0
- CC32: value of control change number 32
- PC#: program number

No.	Tone Name	CC 0	CC 32	PC#	No.	Tone Name	CC 0	CC 32	PC#	No.	Tone Name	CC 0	CC 32	PC#
145	Timpani	00	00	048	193	Bottle Blow	00	00	077	241	Clear Bells	00	65	099
* 146	Strings	00	64	049	* 194	Shakuhachi	00	00	078	242	Soft Crystal	02	02	099
147	GS Strings	00	00	049	* 195	Whistle	00	00	079	243	Digi Bells	09	02	099
* 148	Slow Strings	00	64	050	* 196	Ocarina	00	00	080	244	Syn Mallet	01	00	099
149	GS Sl.Str	00	00	050	* 197	Square Wave	00	00	081	* 245	Atmosphere	00	00	100
150	Warm Strings	09	02	050	198	Syn.Square	00	64	081	* 246	Harpvox	00	64	100
* 151	Orchestra	08	00	049	* 199	CC Solo	00	65	081	247	Nylon Harp	00	65	100
152	Choir Str.	11	02	049	200	Square	01	00	081	248	Nylon+Rhodes	00	66	100
* 153	Syn.Strings1	00	00	051	201	FM Lead 1	01	64	081	* 249	Brightness	00	00	101
154	Syn.Strings2	00	00	052	202	FM Lead 2	00	64	088	250	Goblin	00	00	102
155	Syn.Strings3	08	00	051	203	JP8 Square	08	64	081	251	Echo Drops	00	00	103
* 156	Choir	32	00	053	* 204	Saw Wave	00	00	082	252	Echo Bell	01	00	103
* 157	Pop Voice	00	00	054	* 205	Saw	01	00	082	253	Big Panner	00	64	103
* 158	SynVox	00	00	055	206	Mg Lead	00	64	082	254	Ai-yai-a	01	64	103
* 159	Choir Oohs	00	64	055	207	P5 Saw Lead	01	64	082	255	Echo Bell	01	65	103
* 160	OrchestraHit	00	00	056	* 208	Doctor Solo	08	00	082	256	Echo Pan	02	00	103
* 161	Trumpet	00	64	057	209	Rhythmic Saw	08	64	082	257	Echo Pan 2	02	64	103
162	GS Trumpet	00	00	057	210	Waspy Synth	16	02	082	258	Big Panner	04	02	103
* 163	Trombone	00	64	058	* 211	Syn.Calliope	00	00	083	259	Star Theme	00	00	104
164	Trombone 2	01	00	058	212	JP8 Pulse	00	64	083	* 260	Sitar 2	01	00	105
165	Tuba	00	00	059	213	Chiffer Lead	00	00	084	* 261	Banjo	00	00	106
* 166	MutedTrumpet	00	00	060	214	Cheese Saw	00	64	084	* 262	Shamisen	00	64	107
* 167	French Horn	00	00	061	* 215	Charang	00	00	085	* 263	Koto	00	00	108
* 168	Fr.Horn Solo	00	64	061	216	Reso Saw	00	64	085	* 264	Kalimba	00	00	109
* 169	Brass 1	00	00	062	217	Solo Vox	00	00	086	265	Bagpipe	00	00	110
170	Brass 2	08	00	062	218	RAVE Vox	00	64	086	266	Fiddle	00	00	111
* 171	Synth Brass1	00	00	063	219	5th Saw Wave	00	00	087	267	Shanai	00	00	112
* 172	Synth Brass2	00	00	064	* 220	Bass & Lead	00	00	088	268	Tinkle Bell	00	00	113
173	Synth Brass3	08	00	063	221	Fat & Perky	02	02	088	* 269	Steel Drums	00	00	115
174	Synth Brass4	08	00	064	* 222	Fantasia	00	00	089	270	Falling Down	07	64	126
175	Soft Brass	01	02	064	223	Fantasia 2	00	64	089					
* 176	Soprano Sax	00	64	065	* 224	Warm Pad	00	00	090					
177	GS Sop.Sax	00	00	065	225	Soft Pad	00	64	090					
* 178	Alto Sax	00	00	066	* 226	Polysynth	00	00	091					
* 179	Blow Sax	00	64	067	227	P5 Poly	00	64	091					
180	Tenor Sax	00	00	067	228	Space Voice	00	00	092					
181	Baritone Sax	00	00	068	229	Heaven II	00	64	092					
* 182	Oboe	00	64	069	230	Bowed Glass	00	00	093					
183	GS Oboe	00	00	069	* 231	Metal Pad	00	00	094					
184	English Horn	00	00	070	232	Halo Pad	00	00	095					
* 185	Bassoon	00	00	071	233	JP8 Sqr Pad	00	64	095					
* 186	Clarinet	00	00	072	* 234	Sweep Pad	00	00	096					
187	Piccolo	00	00	073	235	Sweep Pad 2	00	64	096					
188	GS Flute	00	00	074	236	Converge	00	66	096					
* 189	Flute	00	64	074	237	Ice Rain	00	00	097					
190	Recorder	00	00	075	* 238	Soundtrack	00	00	098					
* 191	Pan Flute	00	00	076	* 239	Crystal	00	00	099					
* 192	Blow Pipe	00	64	076	* 240	Vibra Bells	00	64	099					

Internal Music Styles & Disk Styles

POP

Pop 1	♩ = 120, 4/4
Pop 2	♩ = 130, 4/4
Pop 3	♩ = 120, 4/4
Pop 4	♩ = 115, 4/4
Rollin'	♩ = 108, 4/4
Swing Pop	♩ = 85, 4/4
16 Beat Pop	♩ = 120, 4/4
50's	♩ = 131, 4/4
70's	♩ = 121, 4/4
Slow Dance	♩ = 82, 4/4

PIANO STYLE

PianoBallad1	♩ = 60, 4/4
PianoBallad2	♩ = 60, 4/4
PianoBallad3	♩ = 55, 4/4
PianoBallad4	♩ = 135, 4/4
Piano Boogie	♩ = 165, 4/4
Stride Piano	♩ = 130, 4/4
Club Piano	♩ = 106, 4/4
PianoClasic1	♩ = 107, 4/4
PianoClasic2	♩ = 115, 3/4

BALLAD

Ballad 1	♩ = 60, 4/4
Ballad 2	♩ = 95, 4/4
16Bt Ballad1	♩ = 78, 4/4
16Bt Ballad2	♩ = 95, 4/4
Love Songs	♩ = 50, 4/4
60's Ballad	♩ = 85, 4/4
Torch Song	♩ = 72, 4/4

ROCK

Rock 1	♩ = 140, 4/4
Rock 2	♩ = 113, 4/4
UK Rock	♩ = 130, 4/4
Rock 3	♩ = 114, 4/4
Rock 4	♩ = 155, 4/4
Rock'n Roll1	♩ = 160, 4/4
Rock'n Roll2	♩ = 190, 4/4
R&B	♩ = 114, 4/4

COUNTRY

Cntry Swing	♩ = 127, 4/4
TwoStep	♩ = 122, 4/4
Cntry Ballad	♩ = 82, 4/4
Hoedown	♩ = 117, 4/4
Bluegrass	♩ = 152, 4/4
New Country	♩ = 114, 4/4
Train Beat	♩ = 140, 4/4
Cntry Waltz1	♩ = 120, 3/4
Cntry Waltz2	♩ = 86, 3/4
Western	♩ = 90, 4/4
Country Folk	♩ = 72, 4/4
Easy Country	♩ = 74, 4/4

BIG BAND

Jazz Band	♩ = 124, 4/4
BigBnd Swing	♩ = 109, 4/4
BigBnd Bld 1	♩ = 74, 4/4
Boogie	♩ = 164, 4/4
BigBnd Bld 2	♩ = 85, 4/4
Big Band	♩ = 92, 4/4

SWING

Vocal Swing	♩ = 112, 4/4
Medium Swing	♩ = 109, 4/4
Shuffle	♩ = 181, 4/4
Slow Swing	♩ = 60, 4/4
Brush Swing	♩ = 176, 4/4
Combo	♩ = 140, 4/4

LATIN

Bossa Nova 1	♩ = 120, 4/4
Fast Bossa	♩ = 120, 4/4
Rhumba	♩ = 109, 4/4
Bossa Nova 2	♩ = 120, 4/4
Beguine	♩ = 124, 4/4
Mambo	♩ = 120, 4/4
Cha Cha	♩ = 125, 4/4
Salsa	♩ = 95, 4/4
Merengue	♩ = 122, 4/4
Tango 1	♩ = 125, 4/4
Tango 2	♩ = 120, 4/4
Bossa Nova 3	♩ = 140, 4/4
Samba	♩ = 110, 4/4
NewBossaNova	♩ = 92, 4/4
Rio	♩ = 130, 4/4

WALTZ

Slow Waltz 1	♩ = 88, 3/4
Waltzing	♩ = 176, 3/4
Vienna Waltz	♩ = 180, 3/4
Musette	♩ = 192, 3/4
Slow Waltz 2	♩ = 84, 3/4
Pop Waltz	♩ = 120, 3/4
Jazz Waltz	♩ = 120, 3/4

KIDS/MARCH

March 6/8	♩ = 120, 4/4
March 4/4	♩ = 120, 4/4
March 2/4	♩ = 115, 2/4
German Polka	♩ = 127, 4/4
German Waltz	♩ = 180, 3/4
Polka	♩ = 130, 4/4
Fanfare	♩ = 108, 4/4
Kids 1	♩ = 180, 4/4
Kids 2	♩ = 120, 4/4
Kids 3	♩ = 140, 4/4
Kids Waltz	♩ = 110, 3/4

TRAD

Broadway	♩ = 125, 4/4
Foxtrot	♩ = 184, 4/4
Hawaiian	♩ = 110, 4/4
Gospel	♩ = 88, 3/4
Dixieland	♩ = 180, 4/4
Slow Foxtrot	♩ = 98, 4/4
Charleston	♩ = 210, 4/4
Twist	♩ = 150, 4/4

WORLD

70's Disco	♩ = 112, 4/4
Screen 1	♩ = 80, 4/4
Screen 2	♩ = 104, 4/4
Chapel	♩ = 70, 4/4
Techno	♩ = 126, 4/4
House	♩ = 130, 4/4
Triplet Enka	♩ = 80, 4/4
Fusion	♩ = 116, 4/4
Enka	♩ = 77, 4/4
8 Beat Enka	♩ = 85, 4/4
16 Beat Enka	♩ = 90, 4/4
Kayou	♩ = 100, 4/4

DISK STYLES (E-500/01)

01) Easy Listen1	25) Standard
02) Easy Listen2	26) Blues1
03) Easy Listen3	27) Blues2
04) Easy Listen4	28) Afro & Swing
05) Easy Listen5	29) Five
06) Easy Listen6	30) Calypso
07) 50's Pop	31) Lambada
08) Disco	32) Waltz
09) Funk1	33) FrenchWaltz
10) Funk2	34) Swing Waltz
11) Light Fusion	35) Jungle
12) 16BtShuffle	36) Festival
13) PianoBallad5	37) Revival
14) Nickel Odeon	38) 30's Jazz
15) Classical	39) Showtime1
16) 50's Ballad1	40) Showtime2
17) 50's Ballad2	41) Gospel2
18) Anthem	42) Gospel3
19) Rock5	43) Cinema
20) Rock'N'Shffl	44) Baroque
21) Rock Ballad	45) Gt Arpeggio
22) ClassicCntry	46) Vlk Music
23) Cntry Blues	47) Schlager
24) Big Band2	48) SCountry

Drum Sets

PC#	1	9	17	25	26
CC32	64	64	0	0	0
Type	STANDARD	ROOM	POWER	ELECTRONIC	TR-808
25	Bar Chime	-----			
26	Finger Snap	-----			
27	High Q				
28	Slap				
29	Scratch Push [EXC7]				
30	Scratch Pull [EXC7]				
31	Sticks				
32	Square Click				
33	Metronome Click				
34	Metronome Bell				
35	Std Kick 2	Std Kick 1	Kick 2	Kick 2	Kick 2
C2 36	Std Kick 1	Room Kick	MONDO Kick	Elec BD	808 Bass Drum 1
37	Side Stick				808 Rim Shot
38	Std Snr 1	Room Snr 1	Gated SD	Elec SD	808 Snare Drum
39	Hand Clap				
40	Std Snr 2	Std Snr 1	Snare 2	Gated SD	Snare 2
41	Low Tom 2	Room Low Tom 2		Elec Low Tom 2	808 Low Tom 2
42	Closed Hi-hat 1 [EXC1]		Closed Hi-hat 2 [EXC1]	Closed Hi-hat 2 [EXC1]	808 CHH [EXC1]
43	Low Tom 1	Room Low Tom 1		Elec Low Tom 1	808 Low Tom 1
44	Pedal Hi-hat 1 [EXC1]		Pedal Hi-hat 2 [EXC1]	Pedal Hi-hat 2 [EXC1]	808 CHH [EXC1]
45	Mid Tom 2	Room Mid Tom 2		Elec Mid Tom 2	808 Mid Tom 2
46	Open Hi-hat 1 [EXC1]		Open Hi-hat 2 [EXC1]	Open Hi-hat 2 [EXC1]	808 OHH [EXC1]
47	Mid Tom 1	Room Mid Tom 1	Room Mid Tom 1	Elec Mid Tom 1	808 Mid Tom 1
C3 48	High Tom 2	Room Hi Tom 2	Room Hi Tom 2	Elec Hi Tom 2	808 Hi Tom 2
49	Crash Cymbal1				808 Cymbal
50	High Tom 1	Room Hi Tom 1	Room Hi Tom 1	Elec Hi Tom 1	808 Hi Tom 1
51	Ride Cymbal 1				
52	Chinese Cymbal			Reverse Cymbal	
53	Ride Bell				
54	Tambourine				
55	Splash Cymbal				
56	Cowbell				808 Cowbell
57	Crash Cymbal 2				
58	Vibra-slap				
59	Ride Cymbal 2				
C4 60	High Bongo				
61	Low Bongo				
62	Mute High Conga				808 High Conga
63	Open High Conga				808 Mid Conga
64	Low Conga				808 Low Conga
65	High Timbale				
66	Low Timbale				
67	High Agogo				
68	Low Agogo				
69	Cabasa				
70	Maracas				808 Maracas
71	Short Hi Whistle [EXC2]				
C5 72	Long Low Whistle [EXC2]				
73	Short Guiro [EXC3]				
74	Long Guiro [EXC3]				
75	Claves				808 Claves
76	High Wood Block				
77	Low Wood Block				
78	Mute Cuica [EXC4]				
79	Open Cuica [EXC4]				
80	Mute Triangle [EXC5]				
81	Open Triangle [EXC5]				
82	Shaker				
83	Jingle Bell				
C6 84	Bell Tree				
85	Castanets				
86	Mute Surdo [EXC6]				
87	Open Surdo [EXC6]				
88	-----	-----	-----	-----	-----

PC#	26	41	49
CC32	64	64	0
Type	DANCE	BRUSH	ORCHESTRA
25			
26			
27			
28			
29			
30			
31	Dance Snr 1		
32			
33			
34			
35	Std Kick 1	Kick 2	Concert BD 2
36	808 Bass Drum 2	Kick 1	Concert BD 1
37	808 Rim Shot		
38	TR-909 Snr	Brush Tap	Concert SD
39		Brush Slap	Castanets
40	Dance Snr 2	Brush Swirl	Concert SD
41	808 Low Tom 2	Brush Low Tom 2	Timpani F
42	808 CHH [EXC1]	Closed Hi-hat 2 [EXC1]	Timpani F#
43	808 Low Tom 1	Brush Low Tom 1	Timpani G
44	808 CHH [EXC1]	Pedal Hi-hat 2 [EXC1]	Timpani G#
45	808 Mid Tom 2	Brush Mid Tom 2	Timpani A
46	808 OHH [EXC1]	Open Hi-hat 2 [EXC1]	Timpani A#
47	808 Mid Tom 1	Brush Mid Tom 1	Timpani B
48	808 Hi Tom 2	Brush Hi Tom 2	Timpani c
49	808 Cymbal		Timpani c#
50	808 Hi Tom 1	Brush Hi Tom 1	Timpani d
51			Timpani d#
52			Timpani e
53			Timpani f
54			
55	808 Cowbell		
56			
57			Concert Cymbal 2
58			
59			Concert Cymbal 1
60			
61	808 High Conga		
62	808 Mid Conga		
63	808 Low Conga		
64			
65			
66			
67			
68			
69			
70	808 Maracas		
71			
72			
73	808 Claves		
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88	-----	-----	Applause

● SFX Set

PC#	57
CC32	0
Type	SFX
39	High Q
40	Slap
41	Scratch Push [EXC7]
42	Scratch Pull [EXC7]
43	Sticks
44	Square Click
45	Metronome Click
46	Metronome Bell
47	Guitar sliding Finger
48	Guitar cutting noise (down)
49	Guitar cutting noise (up)
50	String slap of double bass
51	Fl.Key Click
52	Laughing
53	Screaming
54	Punch
55	Heart Beat
56	Footsteps1
57	Footsteps2
58	Applause
59	Door Creaking
60	Door
61	Scratch
62	Wind Chimes
63	Car-Engine
64	Car-Stop
65	Car-Pass
66	Car-Crash
67	Siren
68	Train
69	Jetplane
70	Helicopter
71	Starship
72	Gun Shot
73	Machine Gun
74	Laser gun
75	Explosion
76	Dog
77	Horse-Gallop
78	Birds
79	Rain
80	Thunder
81	Wind
82	Seashore
83	Stream
84	Bubble
85	Cat

PC# : Program Change Number
 CC32 : Value of Control Change 32
 * Value of Control Change is set 0.

Blank : same percussion instruments
 as the Standard Set
 ----- : No sound
 [EXC] : will not sound simultaneously
 with other percussion instruments
 of the same EXC number

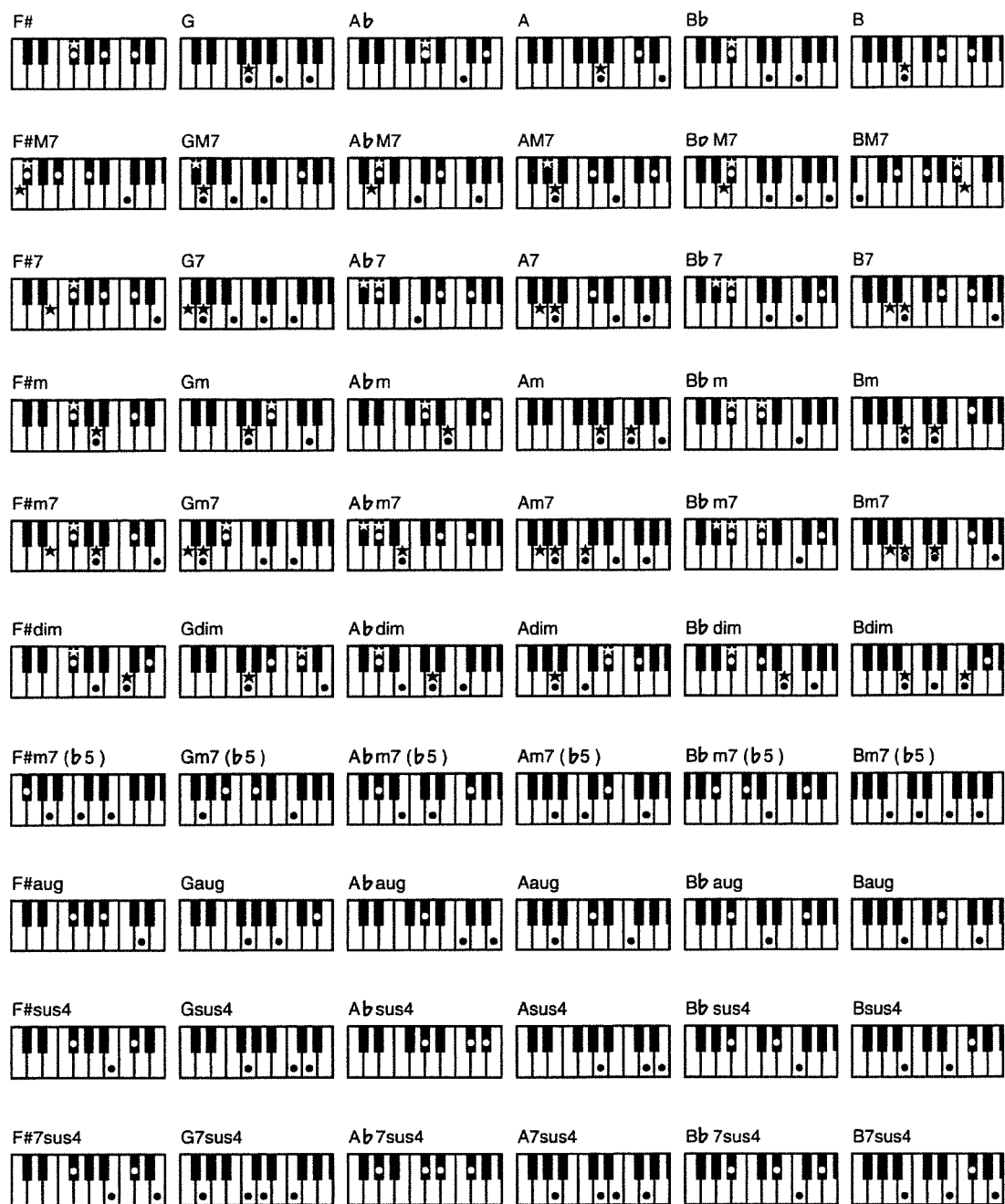
Chord Intelligence

C	C#	D	E \flat	E	F
CM7	C#M7	DM7	E \flat M7	EM7	FM7
C7	C#7	D7	E \flat 7	E7	F7
Cm	C#m	Dm	E \flat m	Em	Fm
Cm7	C#m7	Dm7	E \flat m7	Em7	Fm7
Cdim	C#dim	Ddim	E \flat dim	Edim	Fdim
Cm7 (b5)	C#m7 (b5)	Dm7 (b5)	E \flat m7 (b5)	Em7 (b5)	Fm7 (b5)
Caug	C#aug	Daug	E \flat aug	Eaug	Faug
Csus4	C#sus4	Dsus4	E \flat sus4	Esus4	Fsus4
C7sus4	C#7sus4	D7sus4	E \flat 7sus4	E7sus4	F7sus4

● symbol: Indicates the constituent notes of chords.
 ★ symbol: The keys you need to press in Chord Intelligence mode to play the same chord.

●: Noten, aus denen der Akkord aufgebaut ist.
 ★: Im Chord Intelligence-Betrieb erzielen Sie mit den "★" Tasten das gleiche Ergebnis.

●: Les notes dont est composé l'accord.
 ★: En mode Chord Intelligence, il suffit d'appuyer sur ces touches pour obtenir le même résultat.



MIDI Implementation

INTELLIGENT KEYBOARD

Model E-500

MIDI Implementation Chart

Date : Feb. 1997

Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1 — 16	1 — 16 1 — 16	
Mode	Default Messages Altered	Mode 3 OMNI OFF, POLY *****	Mode 3 Mode 3, 4 (M = 1)	* 2
Note Number :	True Voice	0—127 *****	0 — 127 0 — 127	
Velocity	Note ON Note OFF	O X 8n v = 64	O X	
After Touch	Key's Ch's	X X	O O	* 1 * 1
Pitch Bend		O	O	* 1
Control Change	0, 32	O	O	* 1 Bank Select
	1	X	O	* 1 Modulation
	5	X	O	* 1 Portamento time
	6, 38	X	O	* 1 Data entry
	7	O	O	* 1 Volume
	10	X	O	* 1 Panpot
	11	X	O	* 1 Expression
	64	O	O	* 1 Hold 1
	65	X	O	* 1 Portamento
	66	O	O	* 1 Sostenuto
	67	O	O	* 1 Soft
	84	O	O	* 1 Portamento control
	91	O	O (Reverb)	* 1 Effect 1 depth
	93	O	O (Chorus)	* 1 Effect 3 depth
	98, 99	X	O	* 1 NRPN LSB, MSB
	100, 101	X	O	* 1 RPN LSB, MSB
Prog Change	: True #	0—127 *****	O 0 — 127	* 1 Program Number 1 — 128
System Exclusive		O	O	
System Common	: Song Pos : Song Sel : Tune	X X X	X X X	
System Real Time	: Clock : Commands	X X	X X	
Aux Message	: All Sounds OFF : Reset All Controllers : Local ON/OFF : All Notes OFF : Active Sensing : System Reset	X X X X O X	O (120, 126, 127) O O O (123 — 127) O X	
Notes		* 1 O X is selectable * 2 Recognize as M = 1 even if M ≠ 1		

Mode 1 : OMNI ON, POLY

Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO

Mode 4 : OMNI OFF, MONO

O : Yes

X : No

Roland world Distributors

Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

ARGENTINA
Instrumentos Musicales S.A.
Florida 638
(1005) Buenos Aires
ARGENTINA
TEL: (01) 394 4029

BRAZIL
Roland Brasil Ltda.
R. Coronel Octaviano da Silveira
203
05322-410 São Paulo BRAZIL
TEL: (011) 843 9377

CANADA
Roland Canada Music Ltd.
(Head Office)
5480 Parkwood Way
Richmond B.C. V6V 2M4
CANADA
TEL: (604) 270 6626

Roland Canada Music Ltd.
(Toronto Office)
Unit 2, 109 Woodbine Downs
Blvd, Etobicoke, ON M9W 6Y1
CANADA
TEL: (416) 213 9707

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323
Col. Olivar de los Padres
07780 Mexico D.F. MEXICO
TEL: (525) 668 04 80

La Casa Wagner de
Guadalajara s.a. de c.v.
Av. Corona No. 202 S1.
Guadalajara, Jalisco Mexico
C.P. 44100 MEXICO
TEL: (03) 615 1414

PANAMA
Productos Superiores, S.A.
Apartado 655 - Panama 1
REP. DE PANAMA
TEL: 26 3322

U. S. A.
Roland Corporation U.S.
7200 Dominion Circle
Los Angeles, CA. 90040 3696,
U. S. A.
TEL: (0213) 685 5141

VENEZUELA
Musicland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal,
Nivel C2 Local 20
Caracas VENEZUELA
TEL: (02) 385 9218

AUSTRALIA
Roland Corporation
Australia Pty. Ltd.
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
TEL: (02) 982 8266

NEW ZEALAND
Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

CHINA
Beijing Xinghai Musical
Instruments Co., Ltd.
2 Huangmuchiang Chao Yang
District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG
Tom Lee Music Co., Ltd.
Service Division
22-32 Fun Shan Street, Tsuen
Wan, New Territories,
HONG KONG
TEL: 2415 0911

INDONESIA
PT Galestra Inti
Kompleks Perkantoran
Duta Merlin Blok E No.6-7
Jl. Gajah Mada No.3-5,
Jakarta 10130
INDONESIA
TEL: (021) 6335416

KOREA
Cosmos Corporation Service
Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku,
Seoul, KOREA
TEL: (02) 742 8844

MALAYSIA
Bentley Music SDN BHD
(Head Office)
No.142, Jalan Bukit Bintang 55100
Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

PHILIPPINES
G.A. Yunganco & Co. Inc.
339 Gil J. Puyat Avenue Makati
Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

SINGAPORE
Swee Lee Company
BLOCK 231, Bain Street #03-23
Bris Basah Complex,
SINGAPORE 0718
TEL: 3367886

Cristofori Music Pte Ltd.
335, Joo Chiat Road
SINGAPORE 1542
TEL: 3450435

TAIWAN
Siruba Enterprise (Taiwan)
Co., LTD.
Room 5, 9th. No. 112 Chung Shan
N.Road Sec. 2
Taipei, TAIWAN, R.O.C.
TEL: (02) 561 3339

THAILAND
Theera Music Co., Ltd.
330 Veeng Nakorn Kasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

BAHRAIN
Moon Stores
Bad Al Bahrain Road,
P.O. Box 20077
State of BAHRAIN
TEL: 211 005

IRAN
TARADIS
Mir Emad Ave. No. 15, 10th street
P. O. Box 15875
4171 Teheran, IRAN
TEL: (021) 875 6524

ISRAEL
Halilit P. Greenspoon &
Sons Ltd.
8 Retzif Ha'ahva Hashnya St.
Tel-Aviv-Yafa ISRAEL
TEL: (03) 6823666

JORDAN
Amman Trading Agency
Prince Mohammed St.
P. O. Box 825
Amman 11118 JORDAN
TEL: (06) 641200

KUWAIT
Easa Husain Al-Yousifi
P.O. Box 126 Safat
13002 KUWAIT
TEL: 5719499

LEBANON
A. Chahine & Fils
P.O. Box 16-5857 Gergi Zeidan St.
Chahine Building, Achrafieh
Beirut, LEBANON
TEL: (01) 335799

OMAN
OHI Electronics & Trading Co.
LLC
P. O. Box 889
Muscat Sultanate of OMAN
TEL: 706 010

QATAR
Badie Studio & Stores
P.O. Box 62,
DOHA QATAR
TEL: 423554

SAUDI ARABIA
Abdul Latif S. Al-Ghamdi
Trading Establishment
Middle East Commercial Center
Al-Khobar Highway
W./hamood st.
P. O. Box 3631 Al-Khobar
31952 SAUDI ARABIA
TEL: (03) 898 2332

SYRIA
Technical Light & Sound
Center
Khaled Ebn Al Walid St.
P.O. Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

TURKEY
Barkat Sanayi ve Ticaret
Siraselvier Cad. Guney Ishani No.
86/6 Taksim,
Istanbul TURKEY
TEL: (0212) 2499324

U.A.E
Zak Electronics & Musical
Instruments Co.
Zabed Road, Al Sherouq Bldg.,
No. 14, Grand Floor
DUBAI U.A.E.
P.O. Box 8050 DUBAI, U.A.E.
TEL: (04) 360715

EGYPT
Al Fanny Trading Office
9, Ebn Hagar Al Askalani Street,
And El Goffi, Helipolis,
Cairo, 11341 EGYPT
TEL: (02) 4171828
(02) 4185531

KENYA
Musik Land Limited
P.O. Box 12183 Moi Avenue
Nairobi Republic of KENYA
TEL: (2) 338 346

MAURITIUS
Philanne Music Center
4th. Floor Noll, Happy World
House Sir William Newton Street
Port Luis MAURITIUS
TEL: 242 2986

REUNION
FO - YAM Marcel
25 Rue Jules Merman 71.
Chaudron - BP79 97491
Ste Clotilde REUNION
TEL: 28 29 16

SOUTH AFRICA
That Other Music Shop
(PTY) Ltd.
11 Melle Street (Cnr Melle and
Juta Street)
Braamfontein 2001
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre
Claremont 7700
Republic of SOUTH AFRICA
TEL: (021) 64 4030

AUSTRIA
E. Dematte & Co.
Neu-Rum-Siemens-Strasse 4
P.O. Box 83
A-6040 Innsbruck AUSTRIA
TEL: (0512) 26 44 260

**BELGIUM/HOLLAND/
LUXEMBOURG**
Roland Benelux N. V.
Houtstraat 1 B-2260
Oevel-Westerlo BELGIUM
TEL: (014) 575811

BELOUSSIA
Tushe
Ul. Rohkovskaya 17
220001 MINSK
TEL: (0172) 764-911

CYPRUS
Radex Sound Equipment Ltd.
17 Diagonu St., P.O. Box 2046,
Nicosia CYPRUS
TEL: (02) 453 426
(02) 466 423

DENMARK
Roland Scandinavia A/S
Langebrogade 6 Post Box 1937
DK-1023 Copenhagen K.
DENMARK
TEL: 32 95 3111

FRANCE
MUSIKENGRO
Zac de Follioues 01706
Les Echets Miribel FRANCE
TEL: 472 26 2700

FINLAND
Roland Scandinavia As,
Filial Finland
Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
P. O. Box No. 109
TEL: (0) 682 4020

GERMANY
Roland Elektronische
Musikinstrumente
Handelsgesellschaft mbH.
Oxstrasse 9b,
22844 Norderstedt, GERMANY
TEL: (040) 52 60090

GREECE
V. Dimitriadis & Co. Ltd.
20, Alexandras St. & Bouboulinas
54 St.
106 82 Athens, GREECE
TEL: (01) 8232415

HUNGARY
Intermusica Ltd.
Warehouse Area "DEPO" P183
H-2046 Torokbalint, HUNGARY
TEL: (23) 338 041

IRELAND
The Dublin Service Centre
Audio Maintenance Limited
11 Brunswick Place
Dublin 2 Republic of IRELAND
TEL: (01) 677322

ITALY
Roland Italy S. p. A.
Viale delle Industrie, 8
20020 Arese Milano, ITALY
TEL: (02) 93581311

NORWAY
Roland Scandinavia Avd.
Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker
N-0216 Oslo NORWAY
TEL: 273 0074

POLAND
P. P. H. Brzostowicz Marian
Ul. Błokowa 32,
03624 Warszawa POLAND
TEL: (022) 629 44 19

PORTUGAL
Caius - Tecnologias Audio e
Musica, Lda.
Rue de Catarina 131
4000 Porto, PORTUGAL
TEL: (02) 38 4456

RUSSIA
Petroshop Ltd.
11 Sayanskaya Street
Moscow 11531, RUSSIA
TEL: 095 307 4892

Siami Music Company
Sadovaya-Triumfalnaya st., 16
103006 Moscow, RUSSIA
TEL: 095 209 2193

SPAIN
Roland Electronics
de España, S. A.
Calle Bolivia 239
08020 Barcelona, SPAIN
TEL: (93) 308 1000

SWEDEN
Roland Scandinavia A/S
Danvik Center 28 A, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

SWITZERLAND
Roland (Switzerland) AG
Musitronic AG
Gorbustrasse 5,
CH-1410 Liestal, SWITZERLAND
TEL: (061) 921 1615

UKRAINE
TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachyvo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.,
Swansea Office
Atlantic Close, Swansea
Enterprise Park SWANSEA
West Glamorgan SA7 9FL,
UNITED KINGDOM
TEL: (01792) 702701

As of October, 28, 1996

Notes

Notes

E-500 Owner's manual Errata Corrige

Please refer to the following notes for the updated pages 49, 50, 51 of the E-500 Owner's manual

Page 49

8.6. Saving a song to disk

The song in the Composer's memory is erased when the power is turned off. If you don't want to lose it, please use the method shown below.

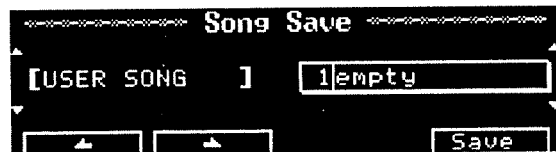
The number of songs that can be saved onto a disk depends on the amount of performance data they contain, but the maximum number of songs you can save is 99 songs.

Note: New disks or disks which have been used on other equipment cannot be used just as they are. Please refer to "Formatting disks" on page 54.

1. Insert a disk you want to save your song to into the disk drive. Make sure the write protect tab is set to "Write".
You can save onto the following disks:
 - New disks formatted on the E-500 or on Personal Computer (DOS/Windows).
 - Disks already containing E-500 songs.
 - Disks containing other DOS/Windows files.
2. Press the Composer [SAVE] button.

Page 50

The display now jumps to the Song Save screen.



3. Use the <▲> and <▼> buttons to the right of the display to select a song number.
You can choose any number between "1" and "99". Do note, however, that selecting a song number that already contains data means that the song in question will be overwritten by your new song.
4. Enter a name for your song with <◀> and <▶> below the display, and <▲> and <▼> to the left of the screen.
The characters you can use to do this are listed below:

Blank ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ `
a b c d e f g h i j k l m n o p q r s t u v w x y z { ~

5. Press <Save>.
Press [EXIT] instead if you do not want to save your song after all.
Note: If you get an error message sometime during the procedure, please refer to "Error messages" on page 74. Songs of E-500 are saved as SMF, so there will be no problem in playing back saved songs on other instruments or computers. If you want to cancel the operation, press the [EXIT] button.

Page 51

Note: Standard MIDI Files can be played back using any GS compatible tone generator (E series keyboards, Sound Canvas module, XP-10 synthesizer, KR series instrument, HP-G series instruments, etc.). Not all GS instruments contain the same number of sounds and effects, however, so that there may be slight tonal differences.

Note: Be sure to set the protect tab of your floppy disk back to "Protect" after removing the floppy.

For Nordic Countries

Apparatus containing Lithium batteries

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VARNING!

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VAROITUS!

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

For E.C. Countries

This product complies with EC directives

- LOW VOLTAGE 73/23
- EMC 89/336"

Dieses instrument entspricht folgenden EG-Verordnungen:

- NIEDRIGE SPANNUNG 73/23
- EMC 89/336"

Cet instrument est conforme aux directives CE suivantes:

- BASSE TENSION 73/23
- EMC 89/336"



Questo prodotto è conforme alle seguenti direttive CEE

- BASSA TENSIONE 73/23
- EMC 89/336"

Dit instrument beantwoordt aan de volgende EG richtlijnen:

- LAGE SPANNING 73/23
- EMC 89/336"

Este producto cumple con las siguientes directrices de la CE

- BAJO VOLTAJE 73/23
- EMC 89/336"

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

CLASS B This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS

CLASSE B Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le ministère canadien des Communications.

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RES 160-97

Printed in Italy by Aniball Grafiche srl - Ancona

97-02-E 500-OM/E